

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P651617

Luminaire Tested: **GALN-SA9D-840-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-840-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58872.5 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

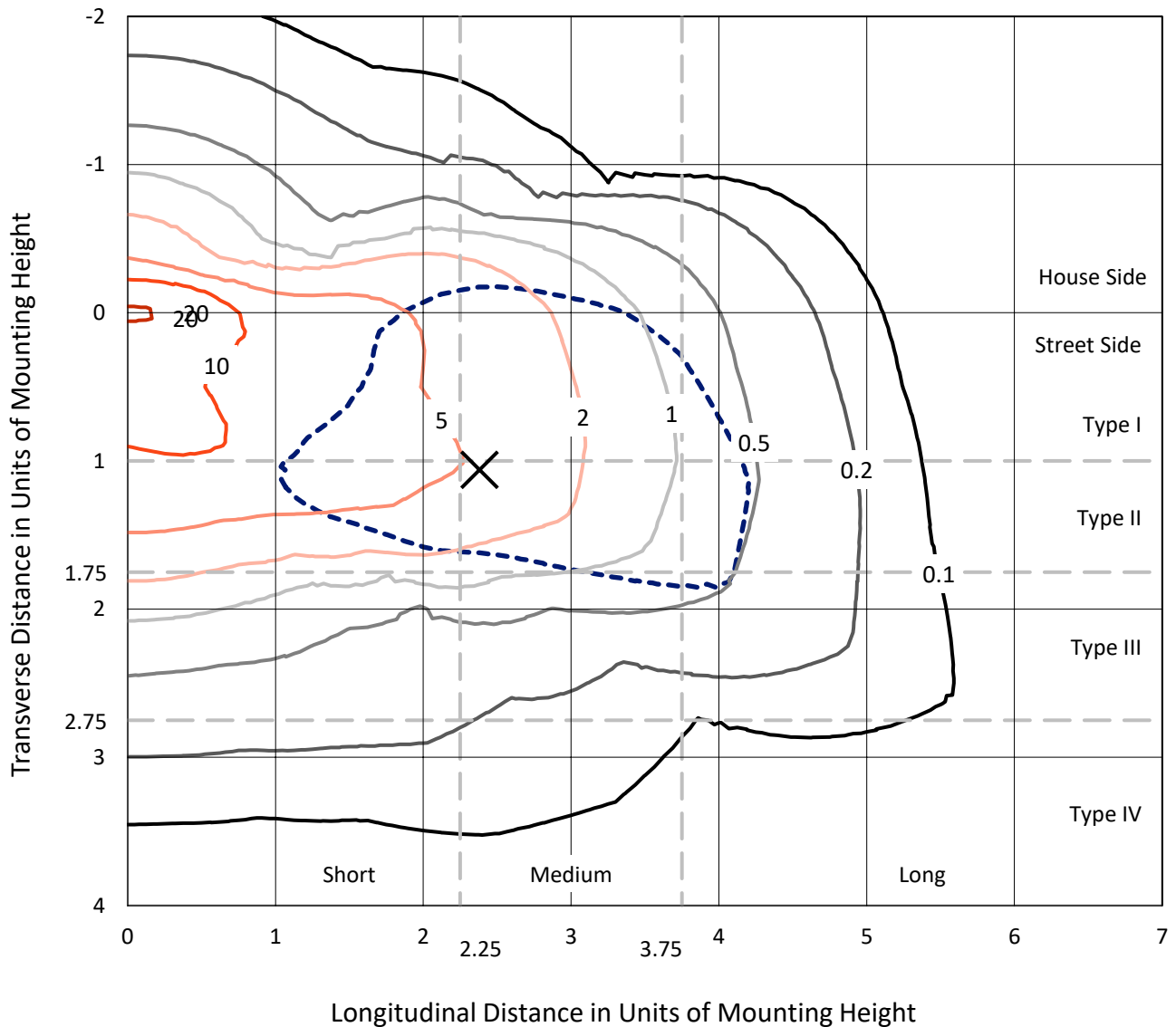
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651617
 CATALOG NUMBER: GALN-SA9D-840-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

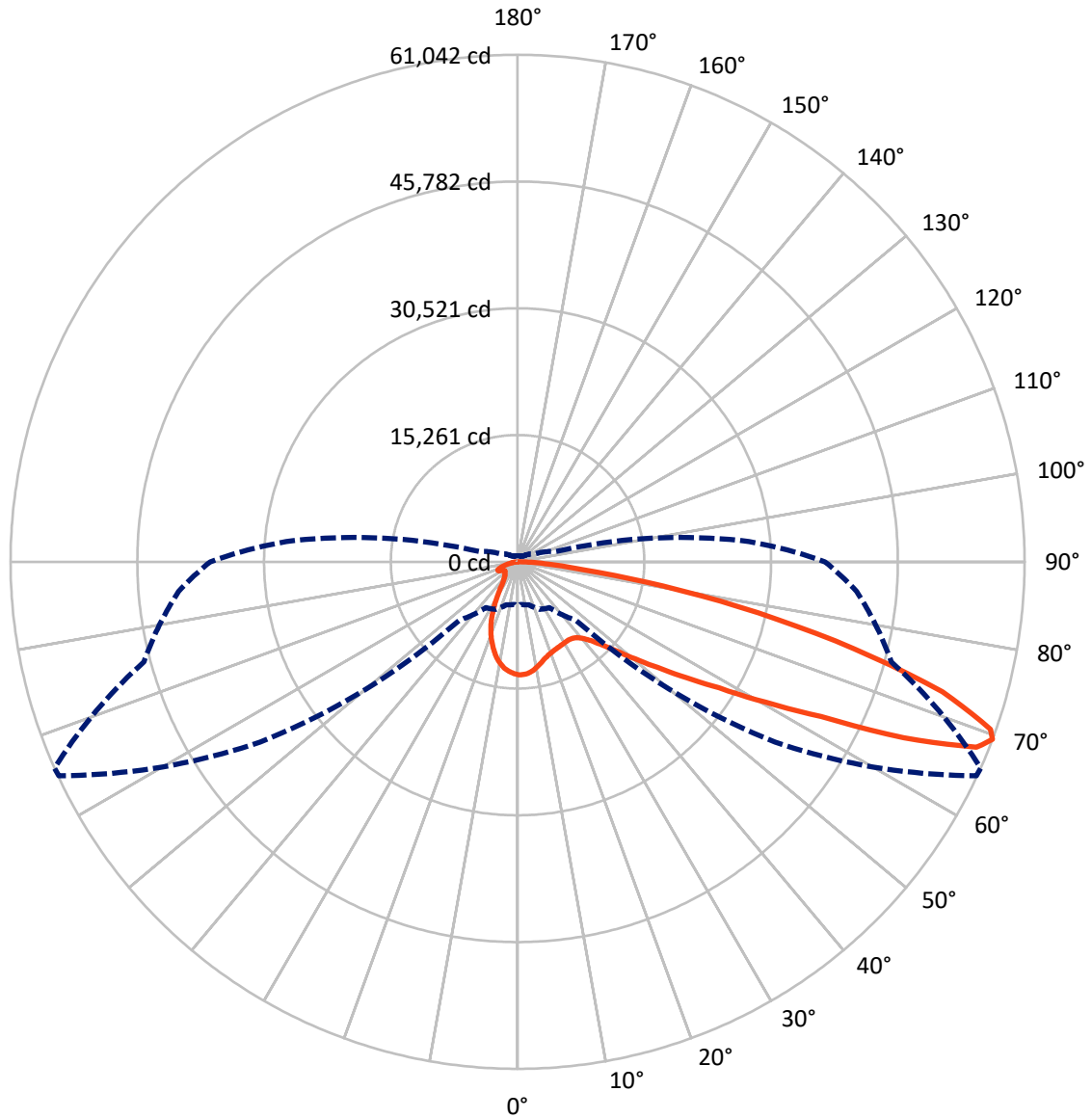
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 fc
 Type III - Medium - N/A

REPORT NUMBER: P651617
CATALOG NUMBER: GALN-SA9D-840-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P651617
 CATALOG NUMBER: GALN-SA9D-840-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11071.7	0.0	11071.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	47800.8	0.0	47800.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	58872.5	0.0	58872.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1180.6	2.0
10°-20°	2800.3	4.8
20°-30°	3812.2	6.5
30°-40°	5122.8	8.7
40°-50°	7649.2	13.0
50°-60°	12167.3	20.7
60°-70°	14965.2	25.4
70°-80°	9737.0	16.5
80°-90°	1437.9	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	58872.5	100.0
0°-180°	58872.5	100.0

Coefficient of Utilization

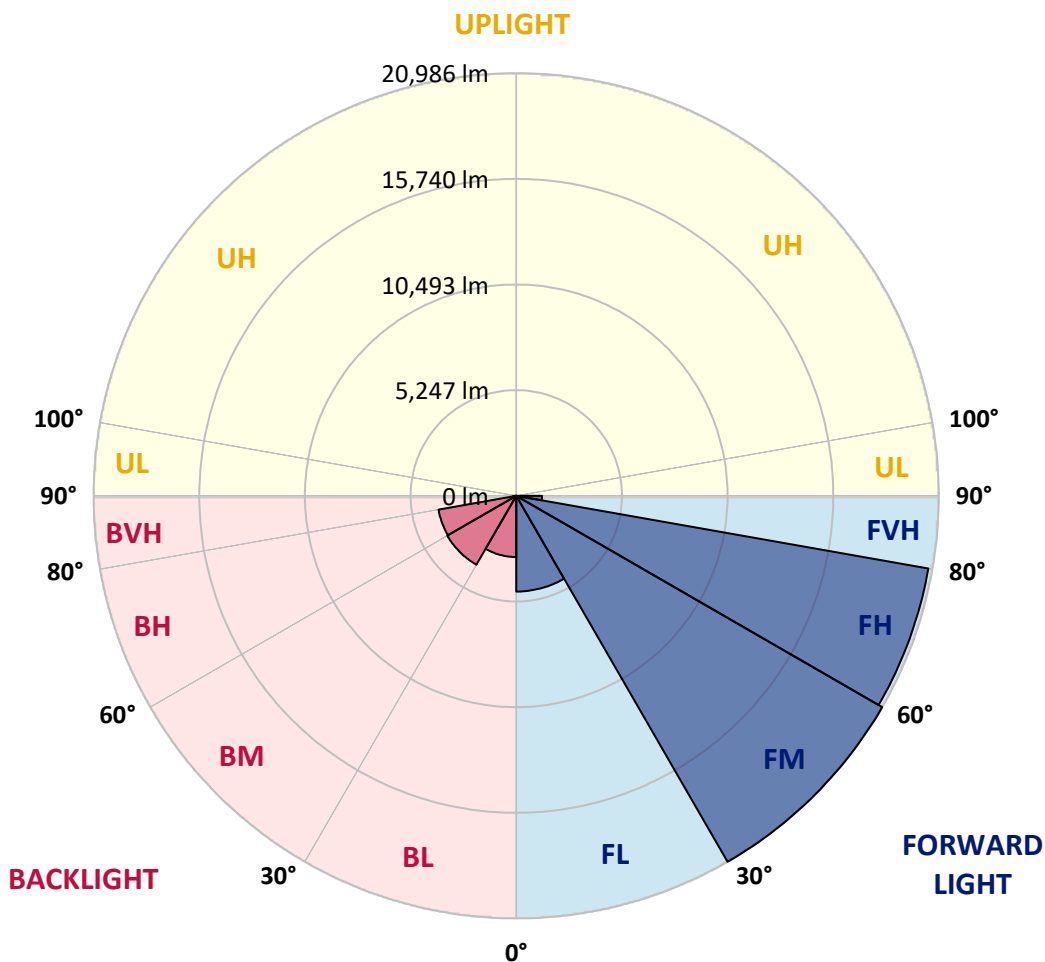


REPORT NUMBER: P651617
 CATALOG NUMBER: GALN-SA9D-840-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4753.9	8.1			
FM (30°-60°)	20986.3	35.6			
FH (60°-80°)	20782.3	35.3			G5
FVH (80°-90°)	1278.3	2.2			G5
BL (0°-30°)	3039.2	5.2	B4/5000		
BM (30°-60°)	3953.1	6.7	B3/5000		
BH (60°-80°)	3919.9	6.7	B4/5000		G4/5000
BVH (80°-90°)	159.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





REPORT NUMBER: P651617
 CATALOG NUMBER: GALN-SA9D-840-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	13595.3	13595.3	13595.3	13595.3	13595.3	13595.3	13595.3	13595.3	13595.3	13595.3	13595.3
2.5°	13119.3	13171.5	13230.2	13295.4	13419.2	13487.7	13536.7	13592.1	13598.5	13627.9	13605.1
5°	12151.0	12212.9	12301.0	12424.8	12610.7	12900.9	13200.8	13445.3	13474.7	13611.6	13650.7
7.5°	11342.5	11378.3	11450.0	11648.9	11913.0	12235.8	12672.6	13168.2	13239.9	13565.9	13680.0
10°	10683.9	10719.7	10804.5	11010.0	11270.7	11675.0	12154.3	12806.3	12865.0	13425.8	13686.6
12.5°	10191.6	10224.2	10315.5	10517.6	10817.5	11195.7	11723.9	12415.1	12499.9	13239.9	13624.6
15°	9816.7	9878.6	9953.6	10119.8	10436.1	10801.2	11313.1	12056.5	12124.9	13044.3	13582.2
17.5°	9656.9	9686.2	9738.4	9891.7	10123.1	10481.7	10996.8	11776.1	11857.6	12907.4	13572.5
20°	9663.4	9692.8	9702.5	9787.3	9953.6	10263.3	10771.9	11554.4	11652.2	12786.7	13588.8
22.5°	9885.1	9888.4	9852.5	9823.2	9888.4	10145.9	10612.2	11388.1	11502.2	12734.6	13601.8
25°	10227.5	10286.1	10234.0	10097.0	9976.4	10100.3	10550.2	11296.8	11404.4	12659.6	13585.5
27.5°	10781.7	10791.5	10749.1	10563.3	10250.3	10158.9	10524.1	11228.4	11319.6	12604.2	13504.0
30°	11525.1	11495.7	11456.6	11251.2	10758.9	10383.9	10579.5	11166.4	11261.0	12522.7	13406.2
32.5°	12278.2	12369.4	12333.6	12092.3	11453.3	10820.8	10758.9	11159.9	11238.1	12460.8	13298.6
35°	13077.0	13119.3	13288.8	13164.9	12509.6	11528.3	11094.6	11261.0	11322.9	12464.0	13223.6
37.5°	13702.9	13817.0	14214.8	14322.3	13706.1	12464.0	11639.1	11547.9	11573.9	12623.7	13253.0
40°	14459.3	14654.8	15166.8	15606.9	15202.6	13680.0	12565.0	12079.3	12111.9	13008.4	13445.3
42.5°	15417.8	15554.7	16242.7	16839.3	16774.1	15287.4	13686.6	12949.8	12966.0	13774.7	13983.3
45°	16539.4	16735.0	17507.6	18404.2	18557.4	17106.6	15307.0	14266.9	14257.1	14964.6	14987.5
47.5°	17973.9	18094.5	18860.6	19838.7	20458.2	19392.0	17272.9	16157.9	16053.5	16699.1	16513.2
50°	19294.2	19483.4	20063.7	21133.1	22675.1	22068.8	19858.3	18609.6	18365.1	18968.3	18655.2
52.5°	19848.5	20047.3	20536.4	21863.3	24575.9	25531.2	23141.4	21534.1	21126.5	21589.5	21475.4
55°	18886.7	19144.3	19600.7	21214.6	25410.5	29525.0	27568.8	24915.0	24618.3	24419.4	24452.0
57.5°	16301.4	16545.8	17162.0	18942.1	24412.9	32423.3	33890.4	29260.8	28625.1	27709.0	27865.4
60°	12408.5	12561.8	12881.3	14853.7	21455.8	33176.4	41069.6	34754.4	34350.1	30985.6	31096.4
62.5°	8812.5	8985.3	9207.0	10191.6	15707.9	31054.0	46690.2	42425.8	40981.5	34379.5	34271.9
65°	7156.3	7038.9	7306.3	7766.0	9216.8	24067.2	47955.2	53073.8	51085.1	38849.3	37356.1
67.5°	5884.8	5760.8	6025.0	6843.3	7009.6	13970.3	43397.4	59985.6	59587.9	43710.4	40489.2
69°	5209.9	5144.7	5376.2	6308.6	6729.2	9921.0	37806.1	60947.4	61042.0	46576.1	40971.8
70°	4694.8	4720.9	4945.8	6038.0	6602.0	8180.0	32312.5	59620.4	60422.5	48007.4	40450.1
72.5°	3455.9	3511.3	3824.3	5001.3	6481.4	6941.1	19229.0	52076.2	53494.4	48092.2	37004.0
75°	2415.9	2389.8	2666.9	3765.6	6122.8	6879.1	11293.5	40274.1	41881.4	41568.4	31093.1
77.5°	1581.2	1623.6	1845.3	2660.3	5151.2	6827.0	7361.7	28573.0	29616.2	27800.3	18391.2
80°	1115.0	1111.7	1235.7	1816.0	3821.0	6559.6	6028.2	18009.7	17745.6	10925.2	5454.4
82.5°	639.0	684.7	828.1	1278.0	2556.1	5774.0	5545.7	8613.6	7863.8	3113.6	1842.0
85°	355.4	371.6	492.3	772.7	1493.2	4349.2	4841.5	3918.8	3697.1	1300.9	792.2
87.5°	114.1	123.9	205.4	391.2	678.1	2054.0	2741.9	1809.4	1669.2	469.4	319.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P651617
 CATALOG NUMBER: GALN-SA9D-840-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13595.3	13595.3	13595.3	13595.3	13595.3	13595.3	13595.3	13595.3	13595.3	13595.3	13595.3
2.5°	13614.9	13654.0	13549.7	13448.6	13357.3	13230.2	13116.1	13021.5	12956.3	12946.5	12913.9
5°	13660.5	13663.7	13464.9	13197.6	12936.8	12649.8	12353.1	12141.3	11942.4	11831.5	11776.1
7.5°	13693.1	13663.7	13305.1	12871.5	12369.4	11847.8	11326.2	10908.9	10586.1	10458.9	10507.8
10°	13680.0	13588.8	13063.8	12369.4	11639.1	10859.9	10110.1	9523.2	8985.3	8708.1	8714.7
12.5°	13608.3	13458.4	12705.2	11805.5	10732.8	9689.5	8541.9	7749.6	7127.0	6758.5	6644.4
15°	13546.4	13285.6	12284.7	11039.2	9705.8	8215.9	6817.2	5839.1	5317.5	5027.3	5024.0
17.5°	13481.2	13119.3	11825.0	10227.5	8525.6	6608.6	5141.5	4394.8	4150.3	4179.7	4130.7
20°	13412.7	12923.6	11345.7	9324.3	7087.8	4929.5	3850.4	3547.2	3615.6	3749.3	3768.9
22.5°	13334.5	12715.0	10830.6	8329.9	5575.1	3710.2	3123.3	3077.7	3253.7	3462.4	3491.7
25°	13213.9	12454.2	10181.8	7290.0	4300.3	2989.7	2735.4	2768.0	2940.7	3116.8	3136.3
27.5°	13044.3	12131.4	9526.5	5992.4	3231.0	2565.8	2500.6	2543.0	2627.8	2735.4	2761.4
30°	12816.1	11766.3	8773.4	4870.8	2588.7	2353.9	2327.8	2350.7	2399.5	2445.2	2458.2
32.5°	12587.9	11414.2	8013.7	3729.8	2308.3	2213.7	2187.6	2187.6	2187.6	2194.2	2197.4
35°	12376.0	11081.6	7198.6	2904.9	2161.5	2102.8	2067.0	2027.9	2021.3	1998.6	1998.6
37.5°	12258.6	10778.4	6331.5	2432.2	2054.0	2011.6	1962.6	1897.5	1861.6	1864.8	1858.4
40°	12281.4	10579.5	5542.4	2164.8	1965.9	1920.3	1845.3	1770.3	1747.5	1747.5	1741.0
42.5°	12539.0	10514.4	4786.0	2024.6	1881.1	1829.0	1734.5	1666.0	1653.0	1649.7	1656.2
45°	13132.4	10674.1	4107.9	1933.4	1809.4	1731.2	1636.7	1574.7	1561.7	1561.7	1558.4
47.5°	14289.8	11192.4	3622.2	1874.7	1757.3	1656.2	1558.4	1496.5	1473.6	1467.1	1467.1
50°	16089.4	12317.3	3260.3	1822.4	1692.1	1587.7	1486.7	1415.0	1379.1	1375.8	1372.6
52.5°	18590.1	14071.3	3120.1	1783.3	1620.4	1516.0	1405.1	1336.7	1291.1	1281.3	1274.8
55°	21514.5	16519.8	3312.4	1754.0	1545.3	1434.5	1320.4	1248.7	1206.3	1186.7	1183.5
57.5°	24901.9	19460.5	4042.7	1714.9	1476.9	1346.5	1235.7	1163.9	1118.3	1095.5	1088.9
60°	27943.7	22482.8	5317.5	1692.1	1418.2	1251.9	1137.9	1072.6	1030.2	1007.4	1004.2
62.5°	31285.5	25364.9	6840.0	1754.0	1392.1	1160.7	1046.5	987.8	952.0	929.1	929.1
65°	34855.5	28250.2	7847.5	1962.6	1431.3	1088.9	948.7	899.9	867.2	850.9	847.6
67.5°	37261.6	29247.8	6465.1	2177.9	1529.0	1010.7	854.2	815.1	795.5	779.2	779.2
69°	37000.7	27986.1	4769.7	2233.3	1558.4	971.5	802.1	772.7	746.6	740.1	733.5
70°	36175.9	26548.4	3997.1	2197.4	1535.6	935.7	769.4	733.5	710.7	704.3	701.0
72.5°	32221.1	23024.0	2976.6	1910.5	1307.3	811.8	681.4	648.8	629.2	619.5	619.5
75°	26770.0	18818.2	2324.6	1519.3	1023.7	684.7	583.6	557.5	541.2	534.7	531.4
77.5°	15003.8	10507.8	1669.2	1190.0	775.9	554.2	489.0	466.3	449.9	443.4	443.4
80°	4179.7	3002.7	981.4	785.7	528.1	420.6	388.0	371.6	348.8	332.5	342.3
82.5°	1574.7	1300.9	560.8	472.7	335.8	280.4	270.6	257.6	247.8	225.0	225.0
85°	766.2	632.5	358.6	251.0	185.9	146.7	140.2	133.6	127.2	110.8	114.1
87.5°	264.1	280.4	156.5	91.2	55.4	35.8	29.4	16.3	16.3	16.3	16.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)