

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: P459419

Luminaire Tested: **GALN-SA8D-735-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459419
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-SA8D-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 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: 58086 lumens
Efficiency: N/A
Efficacy: 117.8 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

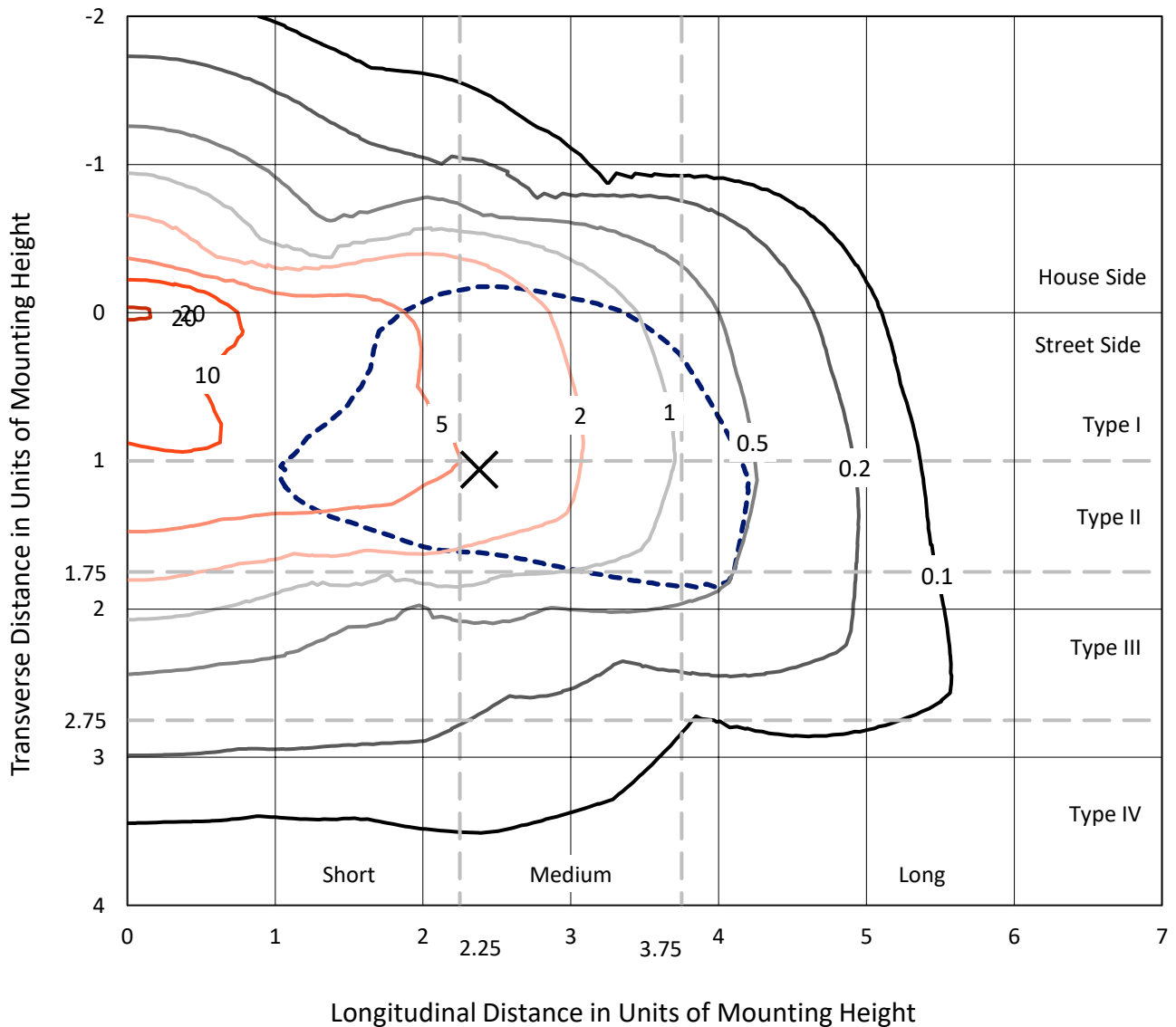
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459419
 CATALOG NUMBER: GALN-SA8D-735-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

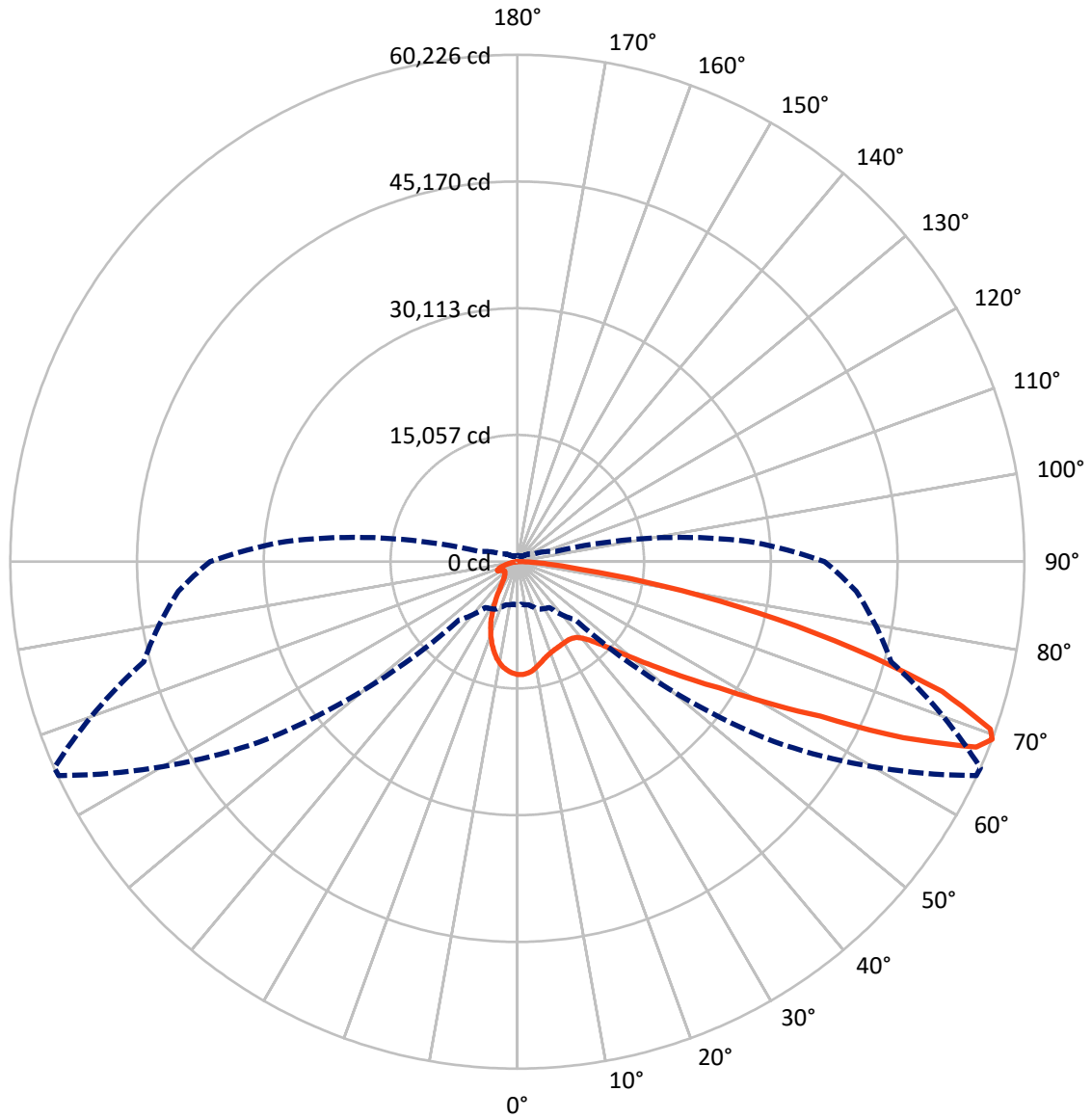
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P459419
CATALOG NUMBER: GALN-SA8D-735-U-SL2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P459419

CATALOG NUMBER: GALN-SA8D-735-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10923.8	0.0	10923.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	47162.2	0.0	47162.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	58086.0	0.0	58086.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1164.8	2.0
10°-20°	2762.9	4.8
20°-30°	3761.3	6.5
30°-40°	5054.4	8.7
40°-50°	7547.0	13.0
50°-60°	12004.8	20.7
60°-70°	14765.2	25.4
70°-80°	9606.9	16.5
80°-90°	1418.7	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°	58086.0	100.0
0°-180°	58086.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459419

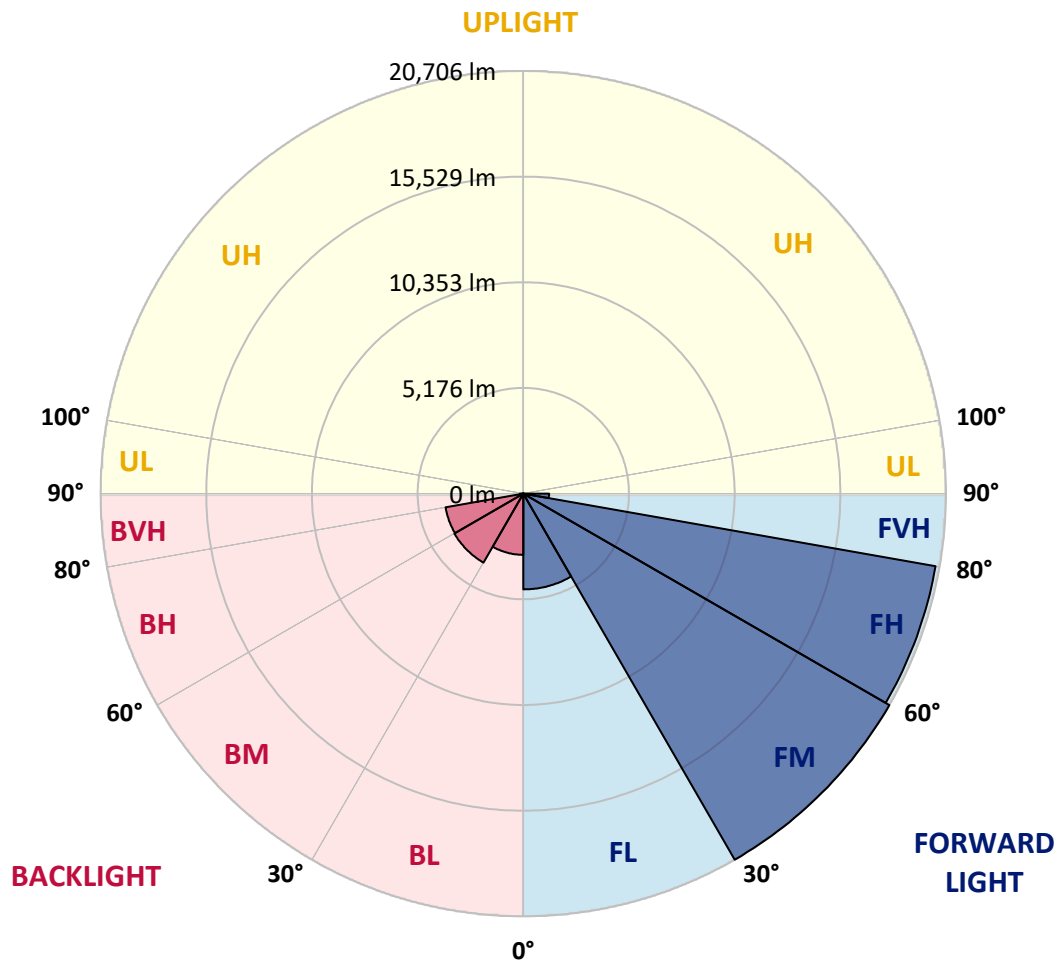
CATALOG NUMBER: GALN-SA8D-735-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4690.4	8.1			
FM (30°-60°)	20705.9	35.6			
FH (60°-80°)	20504.7	35.3			G5
FVH (80°-90°)	1261.3	2.2			G5
BL (0°-30°)	2998.6	5.2	B4/5000		
BM (30°-60°)	3900.3	6.7	B3/5000		
BH (60°-80°)	3867.5	6.7	B4/5000		G4/5000
BVH (80°-90°)	157.4	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: P459419

CATALOG NUMBER: GALN-SA8D-735-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	13413.7	13413.7	13413.7	13413.7	13413.7	13413.7	13413.7	13413.7	13413.7	13413.7	13413.7
2.5°	12944.0	12995.5	13053.4	13117.7	13240.0	13307.5	13355.8	13410.5	13416.9	13445.8	13423.3
5°	11988.7	12049.8	12136.6	12258.9	12442.2	12728.5	13024.4	13265.7	13294.7	13429.8	13468.4
7.5°	11190.9	11226.3	11297.1	11493.3	11753.9	12072.3	12503.3	12992.3	13063.1	13384.7	13497.3
10°	10541.2	10576.5	10660.2	10862.8	11120.2	11519.0	11991.9	12635.2	12693.1	13246.4	13503.7
12.5°	10055.4	10087.6	10177.7	10377.1	10673.0	11046.2	11567.3	12249.2	12332.9	13063.1	13442.6
15°	9685.5	9746.6	9820.6	9984.7	10296.7	10657.0	11162.0	11895.4	11962.9	12870.0	13400.8
17.5°	9527.9	9556.8	9608.3	9759.5	9987.9	10341.7	10850.0	11618.7	11699.2	12734.9	13391.2
20°	9534.3	9563.3	9572.9	9656.6	9820.6	10126.2	10628.0	11400.0	11496.5	12615.9	13407.2
22.5°	9753.1	9756.3	9720.9	9691.9	9756.3	10010.4	10470.4	11236.0	11348.5	12564.5	13420.1
25°	10090.8	10148.7	10097.2	9962.1	9843.1	9965.4	10409.3	11145.9	11252.0	12490.5	13404.0
27.5°	10637.7	10647.3	10605.5	10422.1	10113.3	10023.3	10383.5	11078.3	11168.4	12435.8	13323.6
30°	11371.1	11342.1	11303.5	11100.9	10615.1	10245.2	10438.2	11017.2	11110.5	12355.4	13227.1
32.5°	12114.1	12204.2	12168.8	11930.8	11300.3	10676.3	10615.1	11010.8	11088.0	12294.3	13121.0
35°	12902.2	12944.0	13111.3	12989.1	12342.5	11374.3	10946.5	11110.5	11171.6	12297.5	13047.0
37.5°	13519.8	13632.4	14024.8	14131.0	13523.0	12297.5	11483.6	11393.6	11419.3	12455.1	13075.9
40°	14266.1	14459.1	14964.1	15398.4	14999.5	13497.3	12397.2	11917.9	11950.1	12834.7	13265.7
42.5°	15211.8	15346.9	16025.6	16614.3	16550.0	15083.1	13503.7	12776.8	12792.8	13590.6	13796.5
45°	16318.4	16511.4	17273.7	18158.3	18309.5	16878.1	15102.4	14076.3	14066.7	14764.7	14787.2
47.5°	17733.7	17852.7	18608.7	19573.7	20184.8	19133.0	17042.1	15942.0	15839.1	16476.0	16292.6
50°	19036.5	19223.0	19795.6	20850.7	22372.2	21773.9	19593.0	18361.0	18119.7	18714.8	18406.0
52.5°	19583.3	19779.5	20262.0	21571.2	24247.5	25190.0	22832.2	21246.4	20844.3	21301.0	21188.5
55°	18634.4	18888.5	19338.8	20931.1	25071.0	29130.5	27200.5	24582.1	24289.4	24093.1	24125.3
57.5°	16083.5	16324.8	16932.7	18689.1	24086.7	31990.2	33437.7	28870.0	28242.7	27338.8	27493.2
60°	12242.8	12394.0	12709.2	14655.3	21169.2	32733.2	40520.9	34290.1	33891.2	30571.6	30681.0
62.5°	8694.8	8865.2	9084.0	10055.4	15498.1	30639.1	46066.5	41859.0	40434.0	33920.2	33814.0
65°	7060.7	6944.9	7208.6	7662.2	9093.6	23745.7	47314.6	52364.8	50402.6	38330.3	36857.0
67.5°	5806.2	5683.9	5944.5	6751.9	6915.9	13783.6	42817.6	59184.2	58791.8	43126.4	39948.3
69°	5140.3	5076.0	5304.4	6224.3	6639.3	9788.4	37300.9	60133.1	60226.4	45953.9	40424.4
70°	4632.1	4657.8	4879.7	5957.3	6513.8	8070.7	31880.8	58823.9	59615.2	47366.0	39909.7
72.5°	3409.7	3464.4	3773.2	4934.4	6394.8	6848.4	18972.1	51380.5	52779.7	47449.7	36509.6
75°	2383.6	2357.8	2631.3	3715.3	6041.0	6787.3	11142.7	39736.0	41321.8	41013.0	30677.7
77.5°	1560.1	1601.9	1820.7	2624.8	5082.4	6735.8	7263.3	28191.2	29220.6	27428.9	18145.4
80°	1100.1	1096.9	1219.1	1791.7	3770.0	6472.0	5947.7	17769.1	17508.5	10779.2	5381.6
82.5°	630.5	675.5	817.0	1260.9	2521.9	5696.8	5471.6	8498.5	7758.7	3072.0	1817.4
85°	350.6	366.7	485.7	762.4	1473.3	4291.1	4776.8	3866.5	3647.7	1283.5	781.7
87.5°	112.6	122.2	202.7	386.0	669.1	2026.5	2705.3	1785.3	1647.0	463.2	315.2
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: P459419

CATALOG NUMBER: GALN-SA8D-735-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13413.7	13413.7	13413.7	13413.7	13413.7	13413.7	13413.7	13413.7	13413.7	13413.7	13413.7
2.5°	13433.0	13471.6	13368.6	13268.9	13178.9	13053.4	12940.8	12847.5	12783.2	12773.5	12741.4
5°	13478.0	13481.2	13285.0	13021.2	12763.9	12480.8	12188.1	11979.0	11782.8	11673.4	11618.7
7.5°	13510.2	13481.2	13127.4	12699.6	12204.2	11689.5	11174.8	10763.1	10444.7	10319.2	10367.4
10°	13497.3	13407.2	12889.3	12204.2	11483.6	10714.9	9975.0	9396.0	8865.2	8591.8	8598.3
12.5°	13426.5	13278.6	12535.5	11647.7	10589.4	9560.1	8427.8	7646.1	7031.7	6668.2	6555.7
15°	13365.4	13108.1	12120.6	10891.8	9576.1	8106.1	6726.1	5761.1	5246.5	4960.2	4956.9
17.5°	13301.1	12944.0	11667.0	10090.8	8411.7	6520.3	5072.7	4336.1	4094.9	4123.8	4075.6
20°	13233.5	12751.0	11194.1	9199.8	6993.1	4863.7	3798.9	3499.8	3567.3	3699.2	3718.5
22.5°	13156.3	12545.2	10685.9	8218.7	5500.6	3660.6	3081.6	3036.6	3210.3	3416.1	3445.1
25°	13037.3	12287.8	10045.8	7192.6	4242.8	2949.7	2698.8	2731.0	2901.5	3075.2	3094.5
27.5°	12870.0	11969.4	9399.2	5912.3	3187.8	2531.5	2467.2	2509.0	2592.7	2698.8	2724.6
30°	12644.9	11609.1	8656.2	4805.8	2554.1	2322.5	2296.7	2319.2	2367.5	2412.5	2425.4
32.5°	12419.7	11261.7	7906.7	3679.9	2277.4	2184.1	2158.4	2158.4	2158.4	2164.8	2168.1
35°	12210.6	10933.6	7102.5	2866.1	2132.7	2074.8	2039.4	2000.8	1994.4	1971.8	1971.8
37.5°	12094.8	10634.4	6246.8	2399.7	2026.5	1984.7	1936.5	1872.1	1836.7	1840.0	1833.5
40°	12117.3	10438.2	5468.4	2135.9	1939.7	1894.6	1820.7	1746.7	1724.2	1724.2	1717.7
42.5°	12371.5	10373.9	4722.1	1997.6	1856.0	1804.6	1711.3	1643.7	1630.9	1627.7	1634.1
45°	12956.9	10531.5	4053.1	1907.5	1785.3	1708.1	1614.8	1553.7	1540.8	1540.8	1537.6
47.5°	14098.8	11043.0	3573.8	1849.6	1733.8	1634.1	1537.6	1476.5	1454.0	1447.5	1447.5
50°	15874.5	12152.7	3216.7	1798.1	1669.5	1566.5	1466.8	1396.1	1360.7	1357.5	1354.2
52.5°	18341.7	13883.3	3078.4	1759.5	1598.7	1495.8	1386.4	1318.9	1273.8	1264.2	1257.7
55°	21227.1	16299.1	3268.2	1730.6	1524.7	1415.4	1302.8	1232.0	1190.2	1170.9	1167.7
57.5°	24569.2	19200.5	3988.7	1692.0	1457.2	1328.5	1219.1	1148.4	1103.3	1080.8	1074.4
60°	27570.4	22182.4	5246.5	1669.5	1399.3	1235.2	1122.6	1058.3	1016.5	994.0	990.7
62.5°	30867.5	25026.0	6748.7	1730.6	1373.5	1145.1	1032.6	974.7	939.3	916.8	916.8
65°	34389.8	27872.8	7742.6	1936.5	1412.1	1074.4	936.1	887.8	855.6	839.6	836.3
67.5°	36763.8	28857.1	6378.7	2148.8	1508.6	997.2	842.8	804.2	784.9	768.8	768.8
69°	36506.4	27612.2	4706.0	2203.4	1537.6	958.6	791.3	762.4	736.6	730.2	723.8
70°	35692.6	26193.7	3943.7	2168.1	1515.1	923.2	759.1	723.8	701.2	694.8	691.6
72.5°	31790.7	22716.4	2936.9	1885.0	1289.9	801.0	672.3	640.1	620.8	611.2	611.2
75°	26412.4	18566.8	2293.5	1499.0	1010.0	675.5	575.8	550.1	534.0	527.5	524.3
77.5°	14803.3	10367.4	1647.0	1174.1	765.6	546.8	482.5	460.0	443.9	437.5	437.5
80°	4123.8	2962.6	968.2	775.2	521.1	415.0	382.8	366.7	344.2	328.1	337.8
82.5°	1553.7	1283.5	553.3	466.4	331.3	276.6	267.0	254.1	244.5	222.0	222.0
85°	755.9	624.0	353.8	247.7	183.4	144.8	138.3	131.9	125.5	109.4	112.6
87.5°	260.6	276.6	154.4	90.1	54.7	35.4	29.0	16.1	16.1	16.1	16.1
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)