

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: P529631

Luminaire Tested: **GALN-SA4D-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529631
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-740-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22829 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

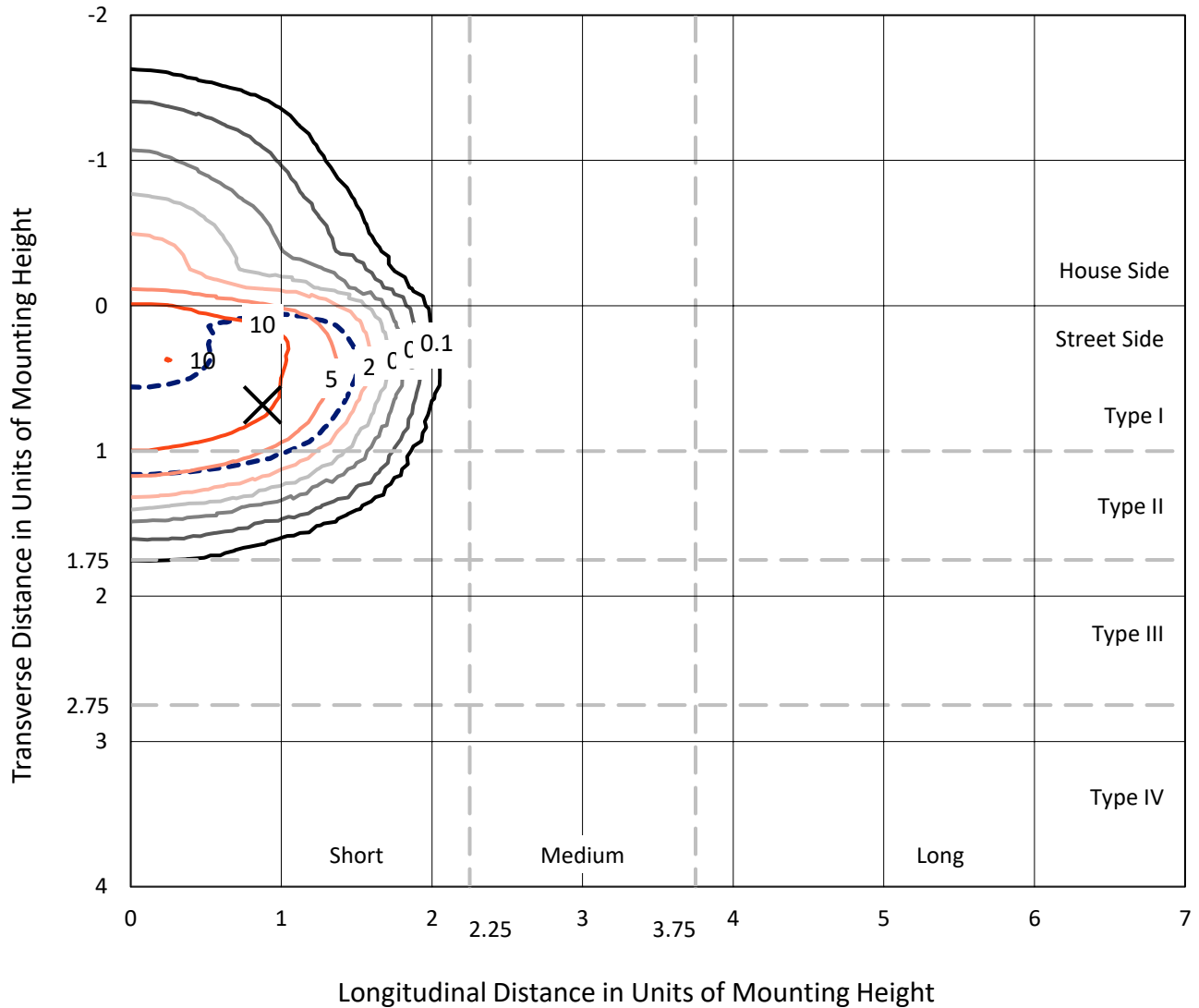
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

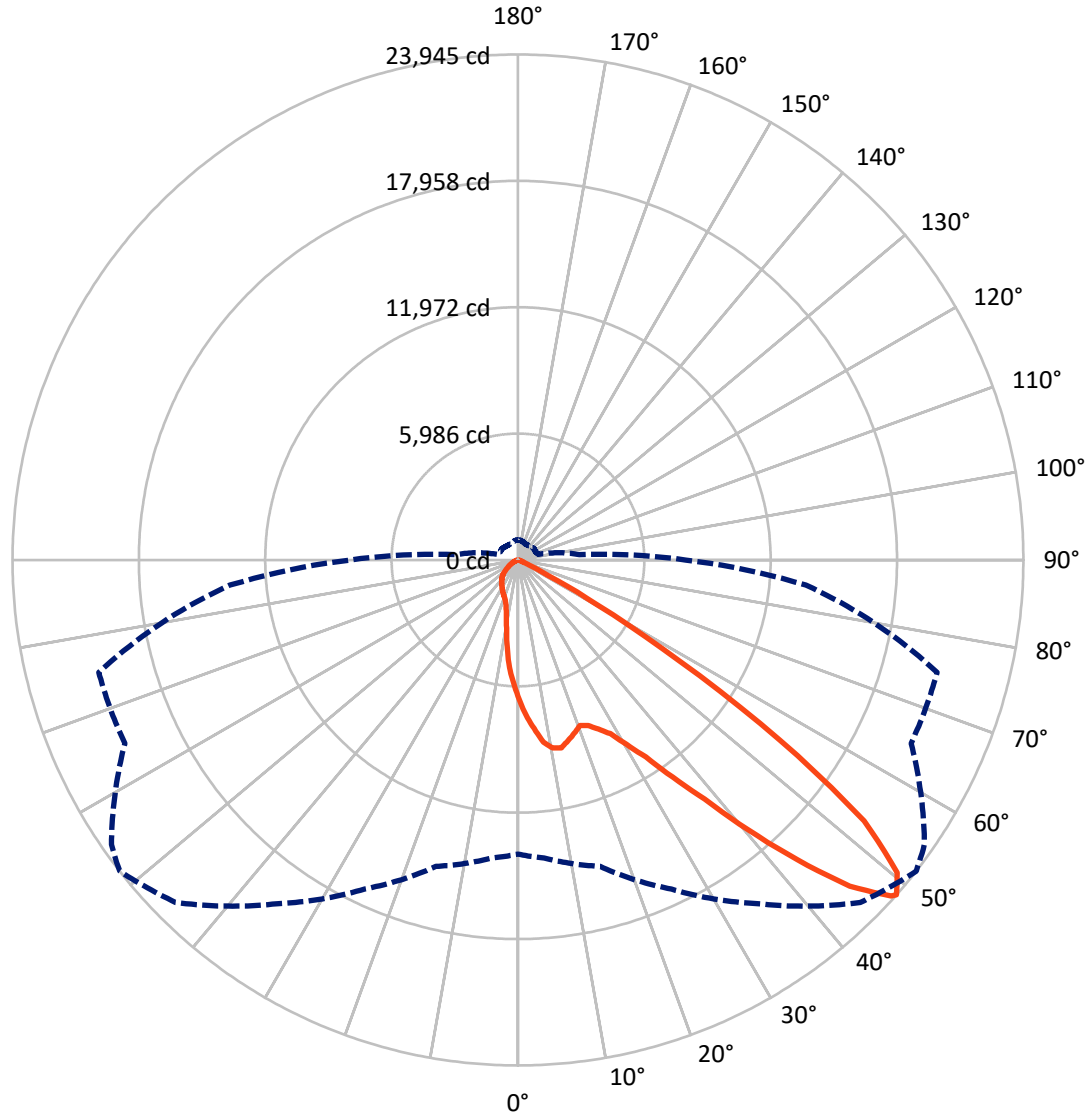
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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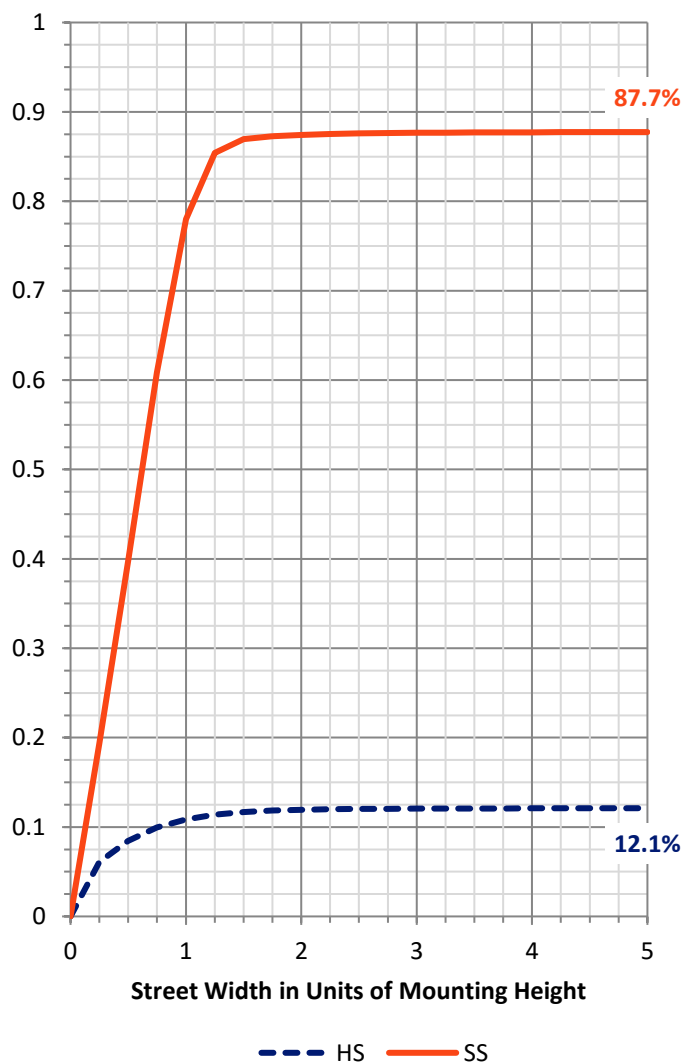
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2779.6	0.0	2779.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	20049.4	0.0	20049.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	22829.0	0.0	22829.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.4	2.6
10°-20°	1576.9	6.9
20°-30°	2692.5	11.8
30°-40°	4958.2	21.7
40°-50°	7700.1	33.7
50°-60°	4634.2	20.3
60°-70°	536.0	2.3
70°-80°	103.7	0.5
80°-90°	24.0	0.1
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°	22829.0	100.0
0°-180°	22829.0	100.0

Coefficient of Utilization



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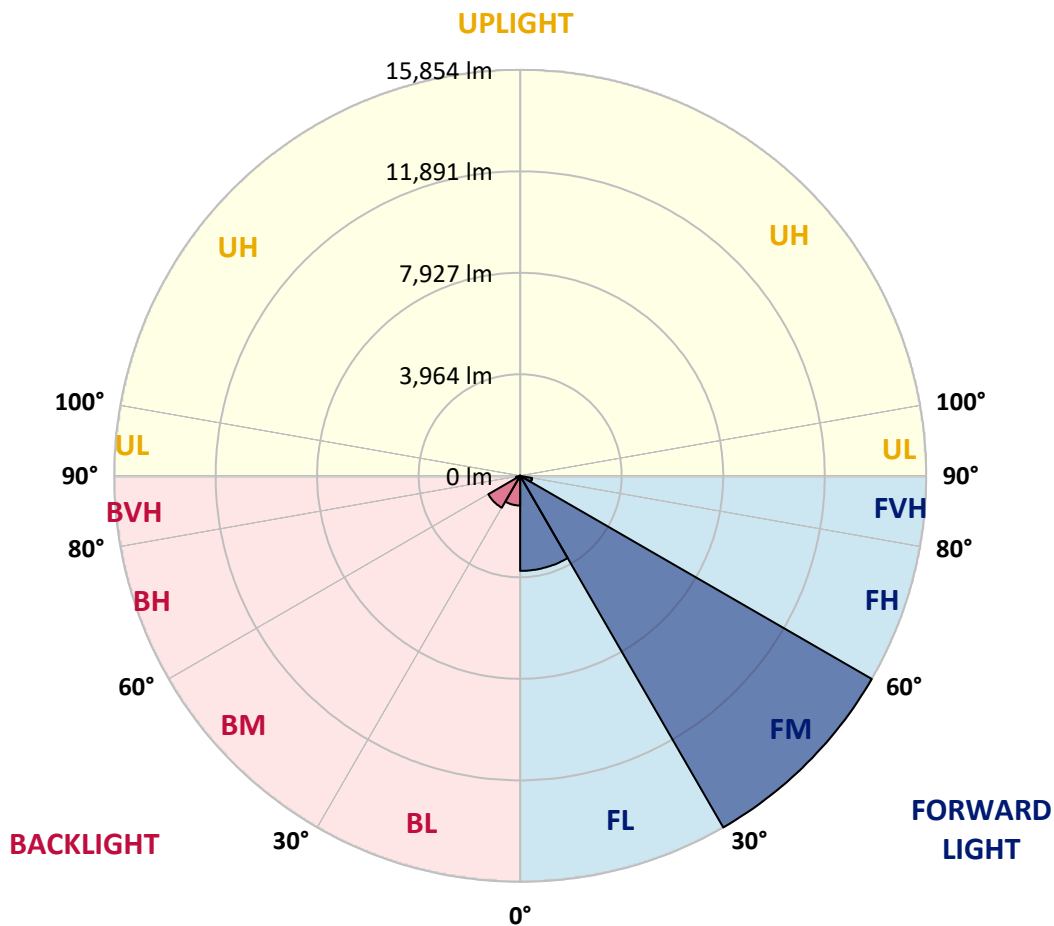
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3711.7	16.3			
FM (30°-60°)	15854.3	69.4			
FH (60°-80°)	472.0	2.1			G0/660
FVH (80°-90°)	11.4	0.1			G1/100
BL (0°-30°)	1161.1	5.1	B3/2500		
BM (30°-60°)	1438.1	6.3	B2/2500		
BH (60°-80°)	167.8	0.7	B1/500		G1/500
BVH (80°-90°)	12.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6592.6	6592.6	6592.6	6592.6	6592.6	6592.6	6592.6	6592.6	6592.6	6592.6	6592.6
2.5°	7990.4	7807.3	7824.0	7704.2	7634.3	7521.1	7368.0	7338.1	7171.7	6945.4	6715.8
5°	8709.2	8665.9	8722.5	8549.5	8556.1	8369.8	8010.3	8017.0	7634.3	7264.9	6908.8
7.5°	8755.8	8656.0	8712.5	8865.6	8955.5	8922.2	8719.2	8542.8	8180.1	7637.6	7118.4
10°	7840.6	8030.3	8090.2	8343.1	8702.5	9081.9	9058.6	9068.6	8765.8	8056.9	7298.2
12.5°	7291.5	7165.0	7368.0	7521.1	8063.6	8799.1	9135.2	9208.4	9231.7	8462.9	7477.9
15°	7041.9	7041.9	7075.2	7118.4	7511.1	8190.0	8875.6	9088.6	9591.1	8995.4	7760.7
17.5°	7198.3	7191.7	7238.3	7148.4	7294.8	7817.3	8636.0	8878.9	9993.8	9517.9	7983.7
20°	7674.2	7697.5	7667.6	7408.0	7418.0	7810.7	8369.8	8752.5	10266.7	9970.5	8279.9
22.5°	8336.5	8349.8	8180.1	7897.2	7814.0	8007.0	8522.8	8815.7	10486.3	10512.9	8369.8
25°	9101.9	9048.7	9015.4	8616.0	8363.1	8529.5	8868.9	9038.7	10622.8	10978.9	8626.0
27.5°	10163.5	10057.0	9854.0	9497.9	9311.6	9075.3	9318.2	9597.8	11012.1	11631.1	8905.5
30°	11731.0	11637.8	11241.8	10782.5	10293.3	10060.3	10136.9	10290.0	11714.3	12386.6	9275.0
32.5°	14090.5	13894.1	13321.7	12446.5	11780.9	11138.6	11118.6	11281.7	12343.3	13431.5	9714.2
35°	16689.6	16629.7	15787.7	14885.8	13597.9	12606.2	12622.9	12709.4	13548.0	14802.6	10290.0
37.5°	18416.8	18746.2	18210.5	17242.0	16160.4	14742.7	14383.3	14413.3	15202.0	16426.7	11328.3
40°	19751.3	19471.7	19535.0	19308.7	18569.9	17604.8	16809.4	16653.0	17115.6	18223.8	12359.9
42.5°	19168.9	19182.2	19571.6	20107.4	20290.4	20220.5	19408.5	19112.3	18752.9	19694.7	13341.7
45°	17524.9	17867.7	18373.5	19791.2	21035.9	22204.0	22044.2	21551.7	19884.4	20859.5	13907.4
47.5°	14902.5	14889.2	15717.8	17561.5	20327.0	23062.6	23788.1	23442.0	20686.4	20729.7	13791.0
48°	13934.1	14173.7	15028.9	17198.8	19877.7	22936.1	23944.5	23508.5	20550.0	20556.6	13691.1
50°	10300.0	10256.7	11321.6	13984.0	17754.5	21551.7	23285.5	23625.0	20546.7	19681.4	12992.3
52.5°	5441.2	5627.5	6402.9	8792.4	12553.0	17638.0	20540.0	21069.1	19821.2	18250.4	11987.2
55°	2312.9	2089.9	2685.6	3970.2	7061.9	11784.2	15068.9	16247.0	16759.5	16150.5	10486.3
57.5°	825.3	901.9	1038.3	1494.2	2968.5	6449.5	8985.4	9900.6	11611.2	11850.8	7145.1
60°	529.1	539.1	582.4	685.6	1114.9	2486.0	4263.1	4991.9	5767.3	5953.7	3334.6
62.5°	409.3	412.7	432.6	449.3	529.1	965.1	1600.7	1896.9	1970.1	1693.9	875.2
65°	342.8	346.1	352.8	352.8	376.1	452.6	559.1	615.7	599.0	592.4	495.9
67.5°	262.9	269.6	282.9	282.9	296.2	276.2	309.5	329.5	372.7	452.6	422.6
70°	206.3	209.7	219.6	226.3	226.3	199.7	223.0	242.9	272.9	336.1	332.8
72.5°	159.7	166.4	173.1	173.1	163.1	136.4	159.7	176.4	196.3	233.0	226.3
75°	123.1	123.1	126.5	103.2	79.9	69.9	96.5	116.5	146.4	153.1	126.5
77.5°	33.3	36.6	33.3	30.0	33.3	49.9	63.2	73.2	93.2	93.2	83.2
80°	0.0	3.3	10.0	20.0	33.3	46.6	56.6	63.2	73.2	79.9	76.5
82.5°	0.0	3.3	10.0	20.0	30.0	36.6	49.9	53.2	59.9	69.9	69.9
85°	0.0	3.3	6.7	13.3	20.0	23.3	23.3	20.0	20.0	16.6	13.3
87.5°	0.0	0.0	3.3	6.7	6.7	10.0	10.0	10.0	10.0	10.0	10.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6592.6	6592.6	6592.6	6592.6	6592.6	6592.6	6592.6	6592.6	6592.6	6592.6	6592.6
2.5°	6625.9	6522.7	6366.3	6120.1	5883.8	5730.7	5584.3	5421.2	5331.3	5324.7	5274.8
5°	6705.8	6472.8	6100.1	5677.5	5224.9	4835.5	4442.8	4186.5	3956.9	3830.5	3807.2
7.5°	6749.0	6446.2	5843.9	5135.0	4362.9	3727.3	3288.0	2965.2	2838.7	2745.5	2742.2
10°	6838.9	6399.6	5461.1	4416.2	3461.1	2818.8	2515.9	2369.5	2299.6	2273.0	2233.0
12.5°	6905.5	6313.1	5068.4	3677.4	2735.6	2336.2	2203.1	2169.8	2173.1	2186.5	2169.8
15°	6998.6	6236.5	4539.3	3018.4	2296.3	2103.3	2103.3	2109.9	2156.5	2163.2	2159.8
17.5°	6992.0	6086.8	3993.5	2486.0	2030.0	2003.4	2013.4	2076.6	2106.6	2116.6	2093.3
20°	7071.9	5947.0	3431.1	2123.2	1880.3	1920.2	1986.8	2003.4	2040.0	2046.7	2020.1
22.5°	7048.6	5597.6	2908.6	1837.0	1767.1	1843.7	1910.2	1930.2	1920.2	1900.2	1896.9
25°	7005.3	5298.1	2429.4	1647.3	1683.9	1767.1	1830.4	1793.8	1773.8	1777.1	1780.4
27.5°	6928.8	4918.7	2033.4	1514.2	1570.8	1693.9	1690.6	1677.3	1697.2	1680.6	1697.2
30°	6915.4	4539.3	1707.2	1394.4	1487.6	1577.4	1584.1	1607.4	1630.7	1600.7	1630.7
32.5°	6935.4	4123.3	1474.3	1321.2	1437.7	1441.0	1514.2	1537.5	1520.9	1454.3	1461.0
35°	7088.5	3803.8	1304.5	1281.3	1357.8	1361.1	1431.0	1401.1	1327.8	1287.9	1311.2
37.5°	7411.3	3537.6	1224.7	1244.6	1251.3	1294.6	1297.9	1238.0	1244.6	1241.3	1254.6
40°	7824.0	3334.6	1168.1	1211.4	1204.7	1234.7	1114.9	1148.1	1178.1	1188.1	1194.7
42.5°	8106.8	3188.2	1131.5	1158.1	1144.8	1091.6	1025.0	1058.3	1081.6	1118.2	1124.8
45°	8233.3	3071.7	1088.2	1064.9	1064.9	968.4	941.8	948.5	1001.7	1041.6	1035.0
47.5°	8027.0	2958.5	1011.7	941.8	965.1	885.2	855.3	855.3	911.9	961.8	951.8
48°	7947.1	2911.9	1015.0	915.2	931.8	871.9	842.0	835.3	898.5	945.1	945.1
50°	7551.1	2738.9	928.5	842.0	808.7	802.0	782.1	788.7	828.7	871.9	871.9
52.5°	6779.0	2366.2	785.4	722.2	662.3	702.2	712.2	698.9	718.8	758.8	755.4
55°	5657.5	1817.1	629.0	599.0	552.4	595.7	615.7	599.0	579.1	609.0	609.0
57.5°	3624.1	978.4	502.5	509.2	462.6	505.8	522.5	482.6	445.9	469.2	465.9
60°	1634.0	585.7	412.7	402.7	372.7	422.6	449.3	402.7	352.8	369.4	386.0
62.5°	612.3	416.0	312.8	306.2	299.5	346.1	359.4	322.8	272.9	282.9	286.2
65°	449.3	366.1	249.6	226.3	239.6	272.9	266.2	229.6	196.3	196.3	203.0
67.5°	382.7	319.5	203.0	176.4	176.4	179.7	166.4	146.4	136.4	143.1	149.8
70°	299.5	252.9	159.7	136.4	123.1	109.8	96.5	93.2	83.2	93.2	89.9
72.5°	193.0	169.7	123.1	103.2	93.2	76.5	63.2	59.9	49.9	46.6	46.6
75°	103.2	103.2	96.5	83.2	73.2	59.9	49.9	39.9	26.6	20.0	20.0
77.5°	73.2	79.9	86.5	79.9	66.6	49.9	39.9	26.6	13.3	6.7	6.7
80°	69.9	79.9	86.5	76.5	66.6	49.9	36.6	20.0	10.0	3.3	3.3
82.5°	63.2	73.2	79.9	69.9	59.9	43.3	33.3	20.0	10.0	3.3	3.3
85°	13.3	16.6	20.0	20.0	23.3	30.0	23.3	16.6	6.7	3.3	3.3
87.5°	10.0	10.0	10.0	10.0	10.0	10.0	6.7	6.7	3.3	3.3	3.3
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)