

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: P529753

Luminaire Tested: **GALN-SA4D-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14790 lumens
Efficiency: N/A
Efficacy: 60.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - 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

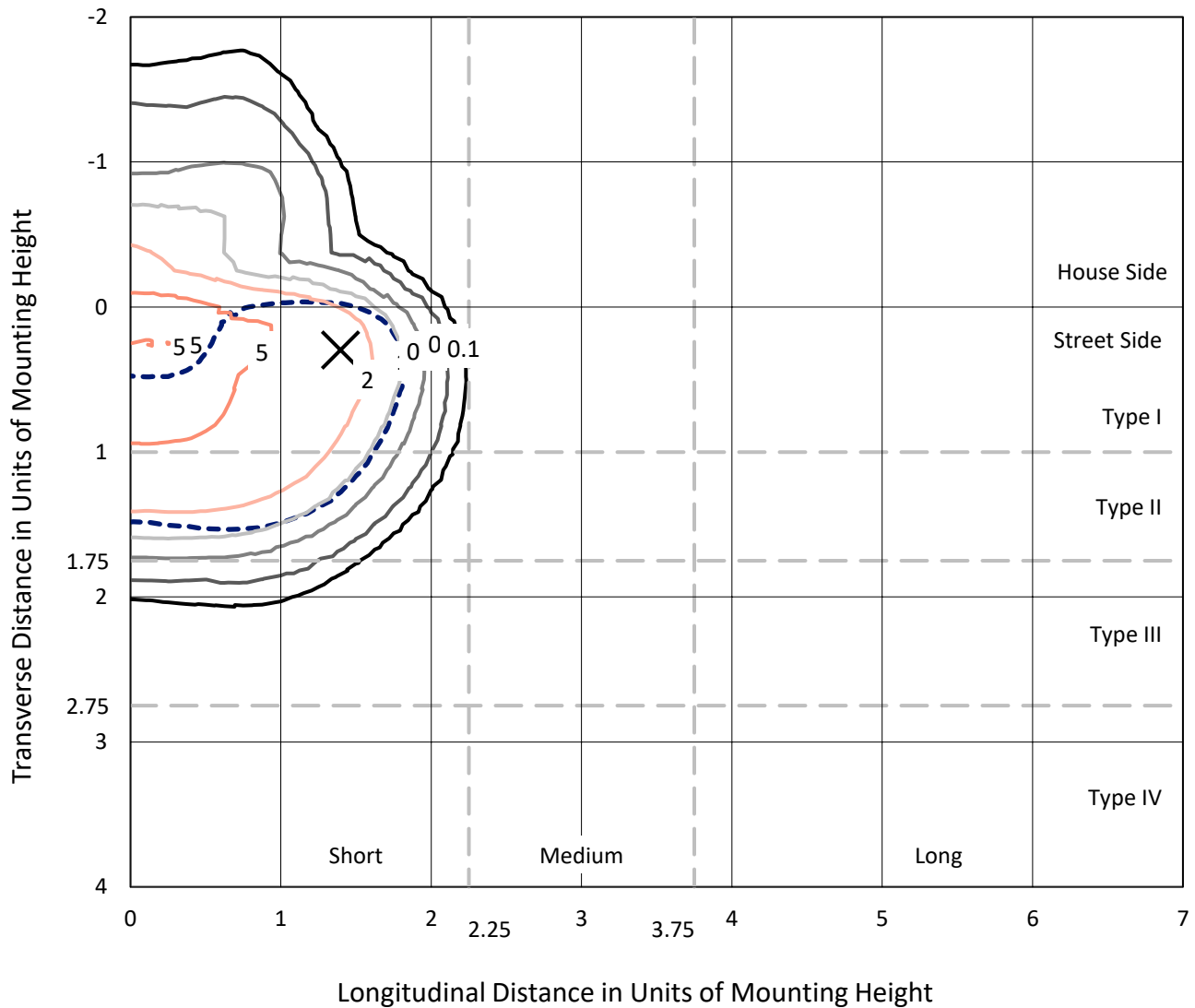


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

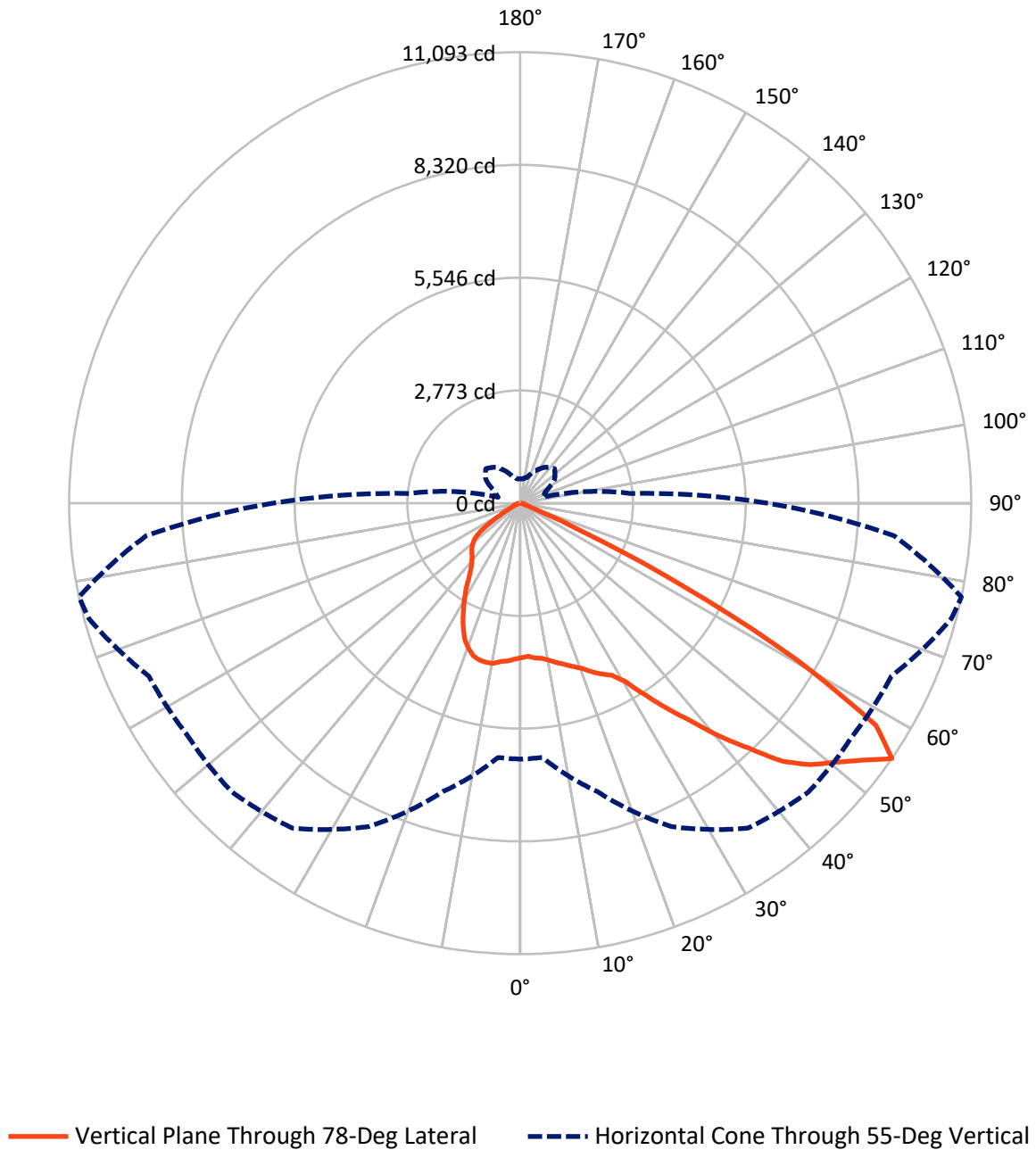


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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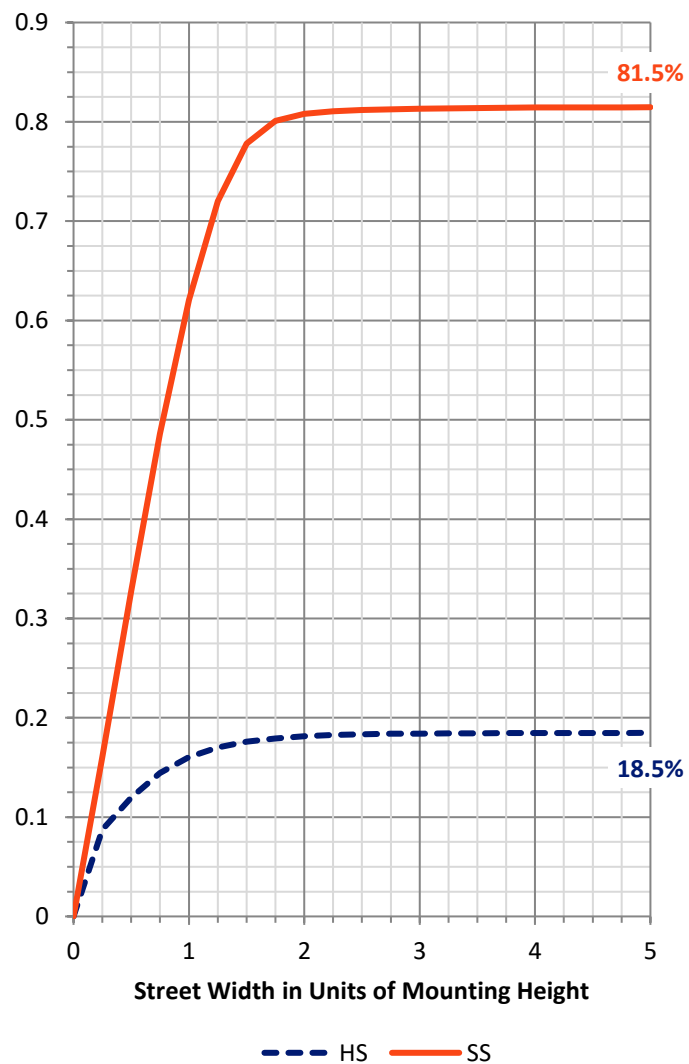
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2747.1	0.0	2747.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	12042.9	0.0	12042.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	14790.0	0.0	14790.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.1	2.3
10°-20°	897.3	6.1
20°-30°	1572.9	10.6
30°-40°	2593.5	17.5
40°-50°	3773.8	25.5
50°-60°	4276.1	28.9
60°-70°	1222.6	8.3
70°-80°	94.9	0.6
80°-90°	19.7	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°	14790.0	100.0
0°-180°	14790.0	100.0

Coefficient of Utilization



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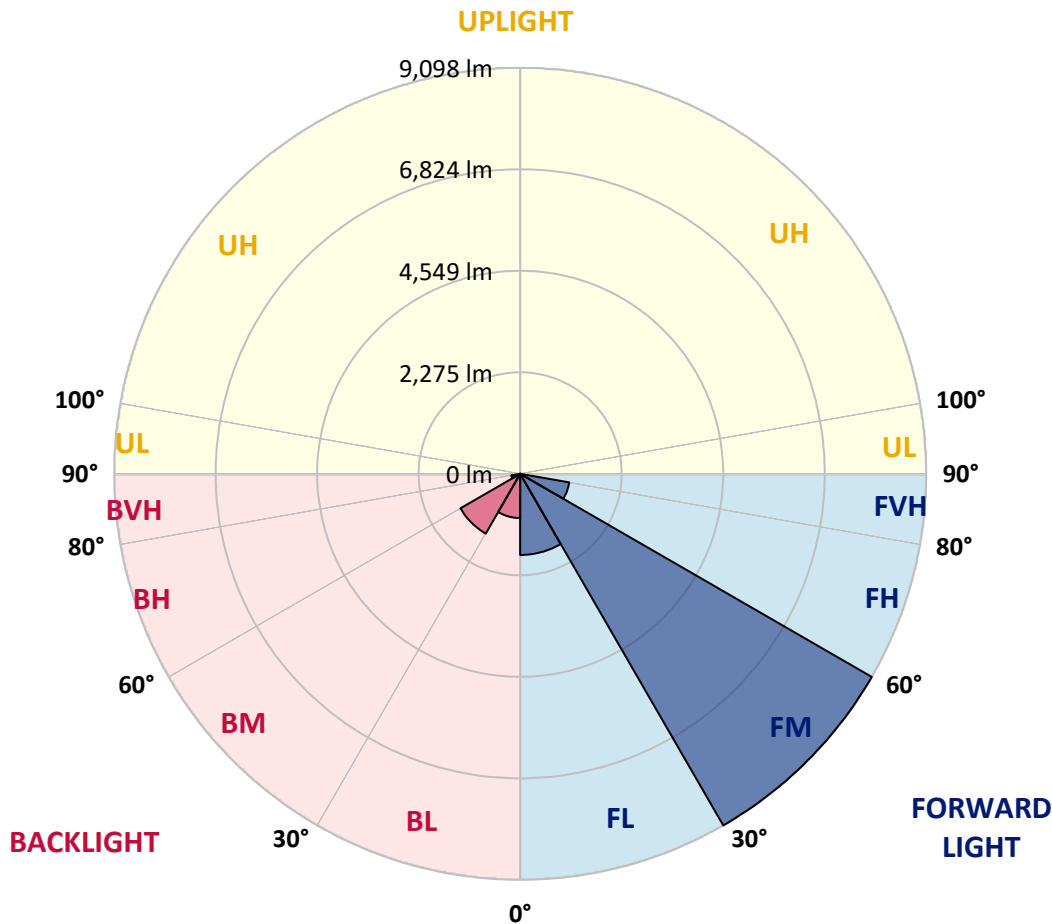
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1818.1	12.3			
FM	(30°-60°)	9098.1	61.5			
FH	(60°-80°)	1117.0	7.6			G1/1800
FVH	(80°-90°)	9.6	0.1			G0/10
BL	(0°-30°)	991.2	6.7	B2/1000		
BM	(30°-60°)	1545.3	10.4	B2/2500		
BH	(60°-80°)	200.5	1.4	B1/500		G1/500
BVH	(80°-90°)	10.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3802.5	3802.5	3802.5	3802.5	3802.5	3802.5	3802.5	3802.5	3802.5	3802.5	3802.5
2.5°	3575.1	3609.5	3614.8	3657.1	3654.4	3725.8	3747.0	3749.6	3797.2	3773.4	3834.2
5°	3474.6	3456.1	3448.2	3522.2	3543.4	3606.8	3659.7	3691.5	3789.3	3823.7	3887.1
7.5°	3384.7	3384.7	3390.0	3456.1	3448.2	3530.2	3585.7	3683.5	3826.3	3855.4	3932.1
10°	3297.5	3265.7	3305.4	3374.1	3432.3	3469.3	3585.7	3678.2	3844.8	3929.4	4035.2
12.5°	3252.5	3268.4	3273.7	3323.9	3387.4	3498.4	3561.9	3715.3	3977.0	4027.3	4141.0
15°	3535.4	3503.7	3427.0	3382.1	3435.0	3487.8	3646.5	3802.5	4045.8	4117.2	4244.1
17.5°	3863.3	3836.9	3773.4	3651.8	3532.8	3630.6	3754.9	3897.7	4119.8	4225.6	4413.4
20°	4291.7	4249.4	4185.9	3948.0	3844.8	3739.1	3871.3	4040.5	4241.5	4336.7	4529.7
22.5°	4802.1	4802.1	4659.3	4371.0	4156.9	4056.4	4111.9	4209.7	4376.3	4505.9	4696.3
25°	5333.6	5317.7	5188.1	4889.3	4527.1	4408.1	4471.5	4540.3	4585.2	4656.6	4783.6
27.5°	5941.8	5849.2	5685.3	5354.7	5034.8	4804.7	4873.5	4812.6	4757.1	4794.1	4976.6
30°	6354.3	6412.5	6203.6	5886.2	5584.8	5328.3	5341.5	5288.6	5034.8	5087.7	5196.1
32.5°	6782.7	6819.7	6703.3	6528.8	6227.3	5928.5	5820.1	5775.2	5584.8	5608.6	5502.8
35°	7139.6	7211.0	7107.9	7031.2	6944.0	6703.3	6404.5	6550.0	6243.2	6185.0	5910.0
37.5°	7467.5	7446.4	7568.0	7488.7	7470.2	7300.9	6973.0	7002.1	6795.9	6782.7	6465.3
40°	7761.0	7766.3	7932.9	7970.0	7895.9	7594.5	7118.5	7348.5	7515.1	7531.0	7123.8
42.5°	8004.3	8075.7	8218.5	8517.3	8406.3	7903.8	7269.2	7520.4	8139.2	8237.0	7747.8
45°	8215.9	8361.3	8538.5	8805.6	8742.1	8342.8	7644.7	7874.8	8805.6	9062.1	8334.9
47.5°	8229.1	8419.5	8612.5	9009.2	9088.5	8578.1	8033.4	8435.3	9334.4	9612.1	8763.2
50°	8176.2	8276.7	8662.8	9093.8	9273.6	8961.6	8578.1	8906.0	9847.4	10021.9	8980.1
52.5°	7549.5	7626.2	8401.0	9173.1	9606.8	9395.2	9300.0	9561.8	10371.0	10500.6	9183.7
55°	6293.5	6280.2	7345.9	8773.8	9760.1	10037.8	9979.6	10072.2	10976.5	11092.9	9233.9
57.5°	4304.9	4545.6	5465.8	7306.2	8821.4	9887.1	9947.9	9794.5	10270.5	10315.5	8049.3
60°	2321.7	2422.2	3162.6	4876.1	6716.5	8057.2	8215.9	7938.2	7901.2	7774.3	5746.1
62.5°	922.9	973.1	1393.6	2414.3	3659.7	4897.3	5238.4	5124.7	4881.4	4548.2	2974.8
65°	439.0	470.7	692.8	1129.1	1623.6	2041.4	2382.5	2488.3	1835.2	1652.7	981.0
67.5°	298.8	322.6	505.1	645.2	579.1	605.5	788.0	732.5	431.0	367.6	272.4
70°	227.4	243.3	404.6	439.0	259.1	182.5	203.6	190.4	177.2	179.8	177.2
72.5°	161.3	174.5	296.2	259.1	113.7	84.6	108.4	129.6	129.6	129.6	126.9
75°	97.8	111.1	171.9	100.5	45.0	45.0	68.8	87.3	92.6	95.2	89.9
77.5°	50.2	63.5	58.2	29.1	29.1	34.4	50.2	60.8	66.1	66.1	63.5
80°	10.6	10.6	10.6	15.9	29.1	37.0	50.2	55.5	63.5	63.5	58.2
82.5°	0.0	2.6	7.9	15.9	26.4	34.4	47.6	55.5	63.5	66.1	60.8
85°	0.0	2.6	5.3	10.6	18.5	21.2	18.5	15.9	15.9	15.9	15.9
87.5°	0.0	0.0	2.6	2.6	2.6	5.3	5.3	5.3	5.3	5.3	5.3
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°	3802.5	3802.5	3802.5	3802.5	3802.5	3802.5	3802.5	3802.5	3802.5	3802.5	3802.5
2.5°	3839.5	3847.5	3834.2	3831.6	3821.0	3852.8	3776.1	3757.6	3805.2	3760.2	3770.8
5°	3889.8	3908.3	3884.5	3844.8	3786.7	3696.7	3620.1	3519.6	3472.0	3437.6	3432.3
7.5°	3926.8	3940.0	3916.2	3789.3	3614.8	3387.4	3218.1	3093.8	2996.0	2966.9	2919.3
10°	4077.5	4080.2	3961.2	3680.9	3339.8	3041.0	2781.8	2591.4	2493.6	2432.8	2406.3
12.5°	4178.0	4172.7	3932.1	3466.7	3011.9	2615.2	2319.1	2089.0	1999.1	1970.0	1951.5
15°	4304.9	4275.8	3863.3	3247.2	2588.8	2160.4	1893.3	1734.7	1726.7	1708.2	1726.7
17.5°	4405.4	4323.4	3762.9	2847.9	2184.2	1779.6	1605.1	1615.7	1636.8	1655.3	1658.0
20°	4569.4	4400.1	3532.8	2498.9	1808.7	1525.8	1523.1	1570.7	1623.6	1644.8	1665.9
22.5°	4693.7	4431.9	3286.9	2126.0	1502.0	1422.6	1467.6	1539.0	1578.7	1599.8	1631.5
25°	4738.6	4344.6	2959.0	1753.2	1353.9	1375.0	1443.8	1491.4	1541.6	1565.4	1552.2
27.5°	4783.6	4299.6	2567.6	1443.8	1274.6	1343.3	1401.5	1449.1	1464.9	1496.7	1517.8
30°	4892.0	4143.6	2215.9	1248.1	1234.9	1322.2	1364.5	1380.3	1422.6	1441.1	1441.1
32.5°	4979.2	4082.8	1843.1	1155.6	1229.6	1332.7	1338.0	1338.0	1343.3	1330.1	1324.8
35°	5159.0	3873.9	1509.9	1100.0	1227.0	1335.4	1348.6	1303.6	1182.0	1134.4	1121.2
37.5°	5381.2	3739.1	1264.0	1086.8	1245.5	1367.1	1388.3	1219.0	1060.4	983.7	970.5
40°	5650.9	3643.9	1102.7	1081.5	1287.8	1441.1	1377.7	1152.9	946.7	835.6	830.3
42.5°	5965.6	3556.6	994.3	1078.9	1340.7	1517.8	1367.1	1097.4	830.3	756.3	766.8
45°	6216.8	3509.0	920.2	1060.4	1359.2	1562.8	1375.0	999.5	782.7	735.1	740.4
47.5°	6412.5	3408.5	859.4	1028.6	1356.5	1578.7	1303.6	959.9	758.9	772.1	785.4
50°	6417.7	3273.7	782.7	959.9	1316.9	1549.6	1221.7	922.9	753.6	809.2	835.6
52.5°	6346.3	3083.3	700.7	862.0	1224.3	1449.1	1147.6	907.0	729.8	724.5	756.3
55°	6092.5	2726.3	563.2	698.1	1033.9	1195.2	1081.5	877.9	658.4	597.6	602.9
57.5°	4923.7	1954.1	415.2	499.8	732.5	875.3	975.8	864.7	592.3	507.7	510.4
60°	3048.9	1108.0	304.1	341.1	452.2	531.5	790.6	803.9	528.9	428.4	423.1
62.5°	1565.4	547.4	235.3	240.6	277.7	312.0	542.1	674.3	478.6	407.2	407.2
65°	523.6	269.7	206.3	185.1	185.1	193.0	327.9	468.0	404.6	341.1	341.1
67.5°	224.8	201.0	179.8	161.3	148.1	140.1	185.1	272.4	301.5	259.1	248.6
70°	174.5	169.2	156.0	134.9	116.3	105.8	108.4	140.1	171.9	166.6	161.3
72.5°	129.6	129.6	124.3	105.8	89.9	76.7	71.4	74.0	82.0	84.6	87.3
75°	89.9	92.6	92.6	82.0	66.1	55.5	47.6	39.7	31.7	26.4	23.8
77.5°	60.8	63.5	68.8	60.8	50.2	37.0	29.1	21.2	13.2	5.3	5.3
80°	52.9	60.8	66.1	60.8	52.9	39.7	29.1	15.9	7.9	0.0	0.0
82.5°	55.5	60.8	68.8	58.2	50.2	37.0	29.1	18.5	7.9	2.6	0.0
85°	13.2	13.2	15.9	18.5	23.8	26.4	21.2	13.2	7.9	2.6	0.0
87.5°	5.3	5.3	5.3	5.3	5.3	2.6	2.6	2.6	2.6	0.0	0.0
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)