

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: P532561

Luminaire Tested: **GALN-SA7D-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532561
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-SA7D-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 26040 lumens
Efficiency: N/A
Efficacy: 60.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 433
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



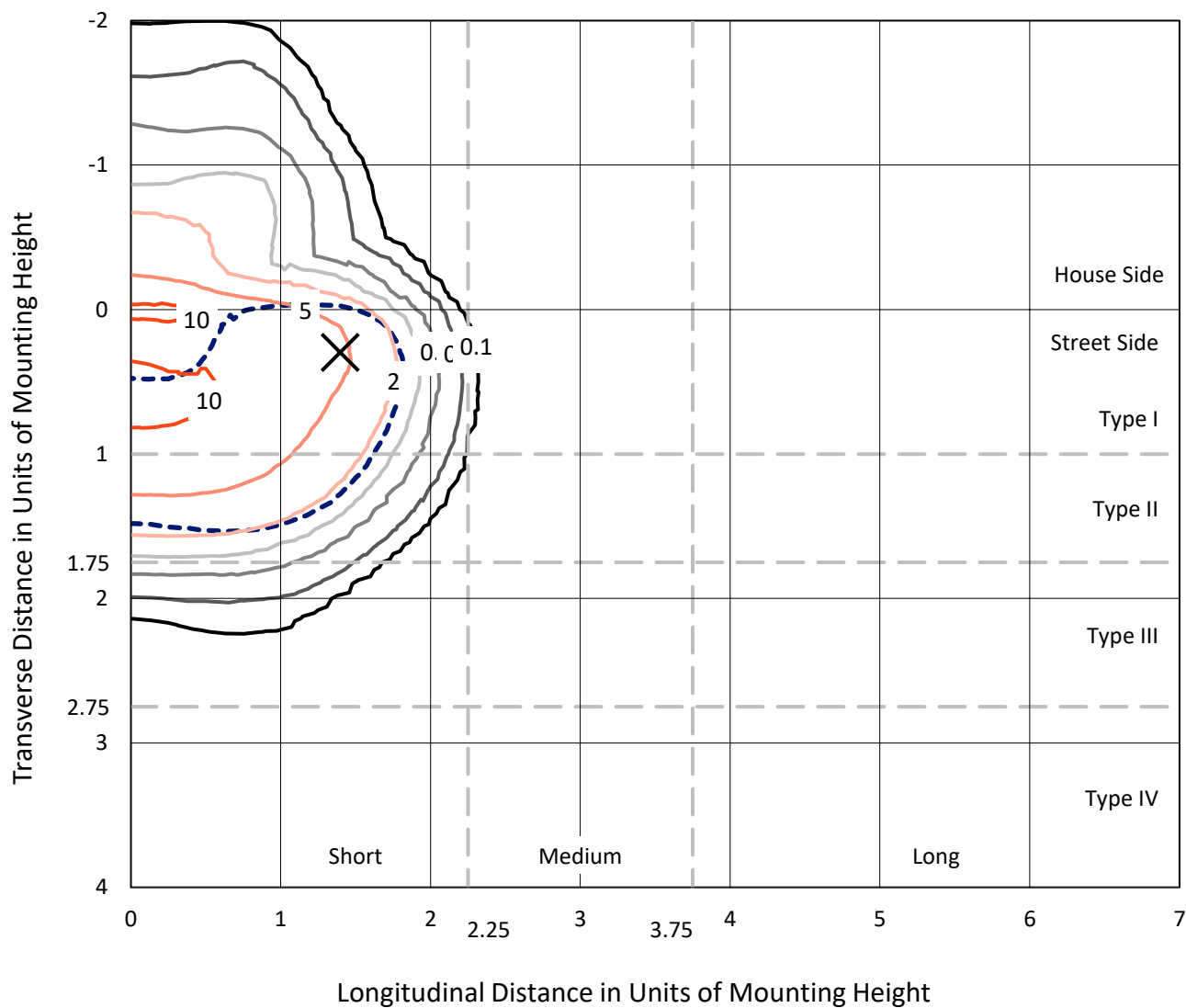
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

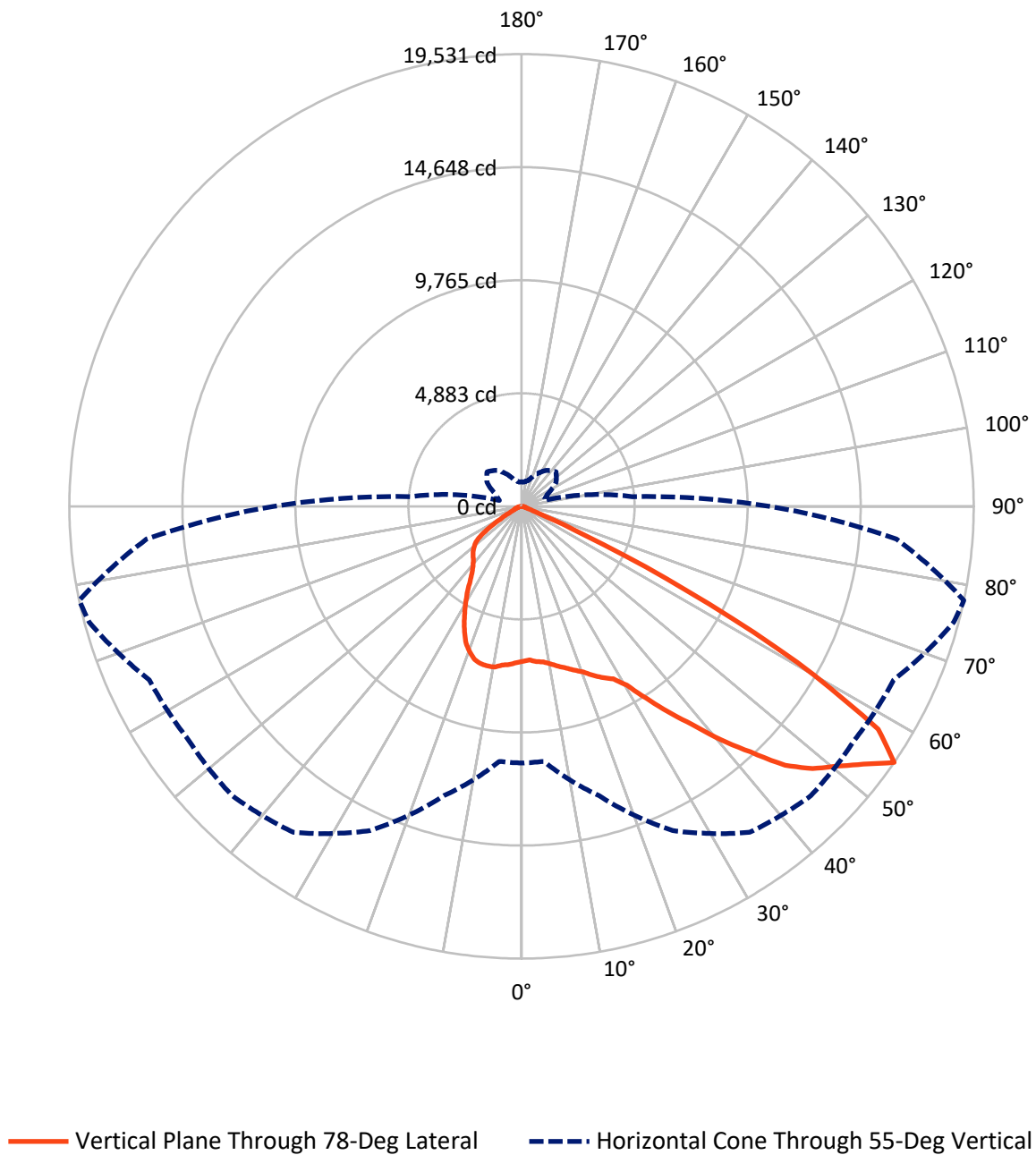


Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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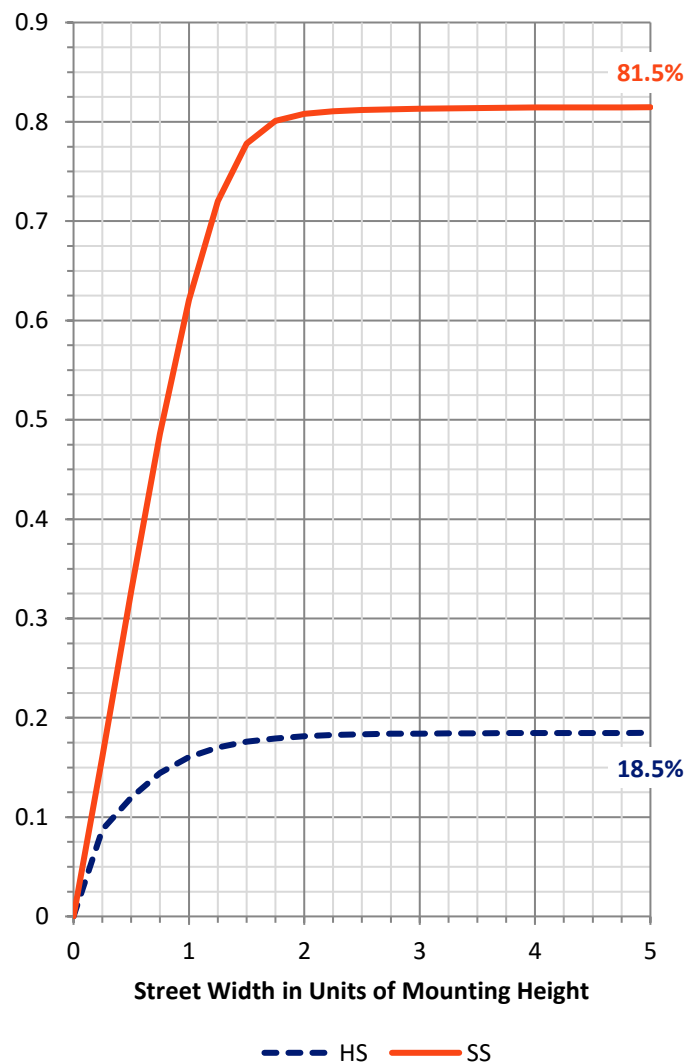
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4836.6	0.0	4836.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	21203.4	0.0	21203.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	26040.0	0.0	26040.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.0	2.3
10°-20°	1579.9	6.1
20°-30°	2769.3	10.6
30°-40°	4566.2	17.5
40°-50°	6644.4	25.5
50°-60°	7528.8	28.9
60°-70°	2152.6	8.3
70°-80°	167.1	0.6
80°-90°	34.8	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°	26040.0	100.0
0°-180°	26040.0	100.0

Coefficient of Utilization



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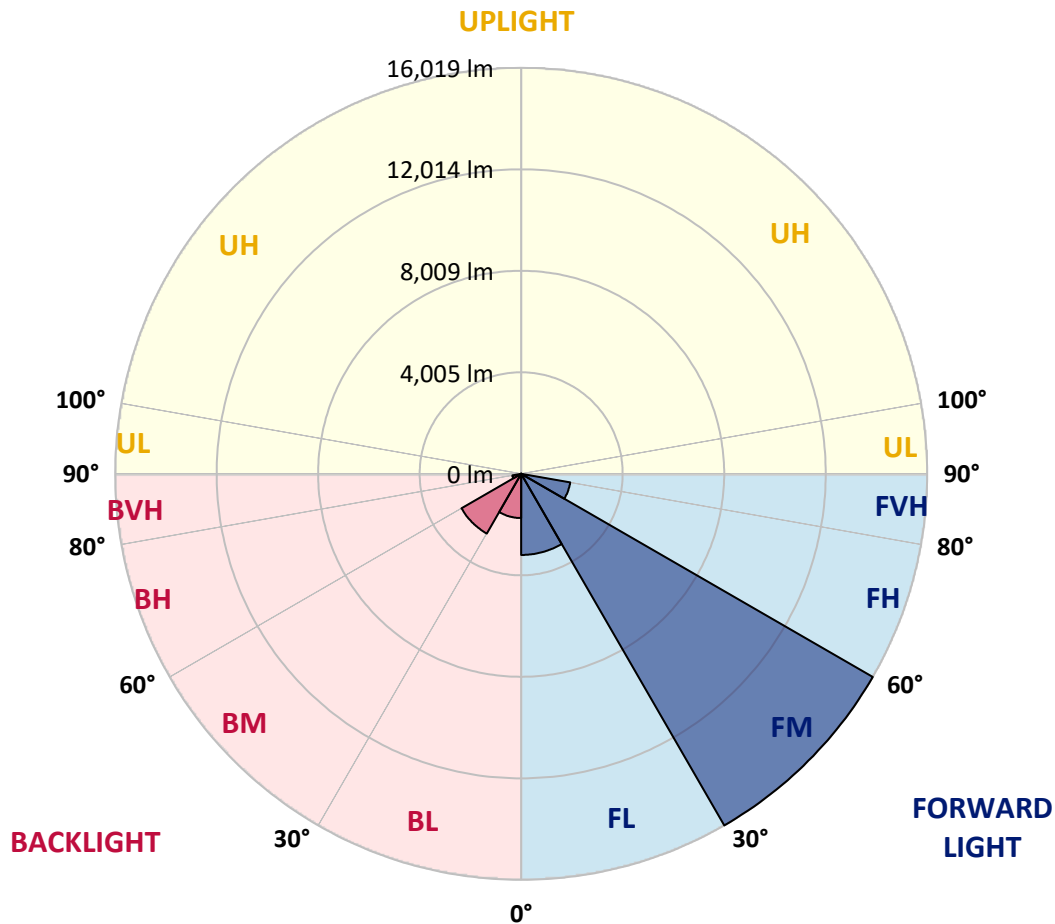
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3201.1	12.3			
FM	(30°-60°)	16018.7	61.5			
FH	(60°-80°)	1966.7	7.6			G2/5000
FVH	(80°-90°)	16.9	0.1			G1/100
BL	(0°-30°)	1745.1	6.7	B3/2500		
BM	(30°-60°)	2720.7	10.4	B3/5000		
BH	(60°-80°)	353.0	1.4	B1/500		G1/500
BVH	(80°-90°)	17.8	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	6694.9	6694.9	6694.9	6694.9	6694.9	6694.9	6694.9	6694.9	6694.9	6694.9	6694.9
2.5°	6294.5	6355.0	6364.3	6438.8	6434.2	6559.9	6597.1	6601.8	6685.6	6643.7	6750.8
5°	6117.6	6085.0	6071.0	6201.4	6238.6	6350.4	6443.5	6499.4	6671.6	6732.1	6843.9
7.5°	5959.3	5959.3	5968.6	6085.0	6071.0	6215.4	6313.1	6485.4	6736.8	6788.0	6923.0
10°	5805.7	5749.8	5819.6	5940.7	6043.1	6108.3	6313.1	6476.1	6769.4	6918.4	7104.6
12.5°	5726.5	5754.4	5763.8	5852.2	5964.0	6159.5	6271.2	6541.3	7002.2	7090.6	7290.8
15°	6224.7	6168.8	6033.8	5954.6	6047.8	6140.9	6420.2	6694.9	7123.2	7248.9	7472.4
17.5°	6802.0	6755.4	6643.7	6429.5	6220.0	6392.3	6611.1	6862.5	7253.6	7439.8	7770.4
20°	7556.2	7481.7	7370.0	6951.0	6769.4	6583.2	6815.9	7113.9	7467.7	7635.4	7975.2
22.5°	8454.8	8454.8	8203.3	7695.9	7318.8	7141.8	7239.6	7411.9	7705.2	7933.3	8268.5
25°	9390.6	9362.6	9134.5	8608.4	7970.6	7761.1	7872.8	7993.8	8073.0	8198.7	8422.2
27.5°	10461.4	10298.4	10009.8	9427.8	8864.5	8459.4	8580.5	8473.4	8375.6	8440.8	8762.0
30°	11187.7	11290.1	10922.3	10363.6	9832.8	9381.2	9404.5	9311.4	8864.5	8957.6	9148.5
32.5°	11941.9	12007.1	11802.2	11494.9	10964.2	10438.1	10247.2	10168.1	9832.8	9874.7	9688.5
35°	12570.4	12696.1	12514.5	12379.5	12225.9	11802.2	11276.1	11532.2	10992.1	10889.7	10405.5
37.5°	13147.7	13110.5	13324.6	13184.9	13152.4	12854.4	12277.1	12328.3	11965.2	11941.9	11383.2
40°	13664.5	13673.8	13967.1	14032.3	13901.9	13371.2	12533.1	12938.2	13231.5	13259.4	12542.5
42.5°	14092.8	14218.5	14469.9	14996.0	14800.5	13915.9	12798.5	13240.8	14330.3	14502.5	13641.2
45°	14465.3	14721.3	15033.3	15503.5	15391.8	14688.7	13459.6	13864.7	15503.5	15955.1	14674.8
47.5°	14488.5	14823.8	15163.6	15862.0	16001.6	15103.1	14144.0	14851.7	16434.6	16923.5	15429.0
50°	14395.4	14572.3	15252.1	16011.0	16327.5	15778.2	15103.1	15680.4	17337.8	17645.1	15810.8
52.5°	13292.0	13427.0	14791.2	16150.6	16914.2	16541.7	16374.1	16835.0	18259.7	18487.8	16169.3
55°	11080.6	11057.3	12933.5	15447.6	17184.2	17673.0	17570.6	17733.6	19325.8	19530.7	16257.7
57.5°	7579.5	8003.2	9623.3	12863.7	15531.4	17407.7	17514.8	17244.7	18082.7	18161.9	14172.0
60°	4087.7	4264.6	5568.2	8585.1	11825.5	14185.9	14465.3	13976.4	13911.2	13687.8	10116.8
62.5°	1624.8	1713.3	2453.6	4250.7	6443.5	8622.4	9222.9	9022.8	8594.4	8007.8	5237.7
65°	772.8	828.7	1219.8	1988.0	2858.6	3594.2	4194.8	4381.0	3231.1	2909.8	1727.3
67.5°	526.1	568.0	889.2	1136.0	1019.6	1066.2	1387.4	1289.6	758.9	647.1	479.5
70°	400.4	428.3	712.3	772.8	456.3	321.2	358.5	335.2	311.9	316.6	311.9
72.5°	284.0	307.3	521.4	456.3	200.2	149.0	190.9	228.1	228.1	228.1	223.5
75°	172.3	195.5	302.6	176.9	79.1	79.1	121.0	153.6	162.9	167.6	158.3
77.5°	88.5	111.7	102.4	51.2	51.2	60.5	88.5	107.1	116.4	116.4	111.7
80°	18.6	18.6	18.6	27.9	51.2	65.2	88.5	97.8	111.7	111.7	102.4
82.5°	0.0	4.7	14.0	27.9	46.6	60.5	83.8	97.8	111.7	116.4	107.1
85°	0.0	4.7	9.3	18.6	32.6	37.2	32.6	27.9	27.9	27.9	27.9
87.5°	0.0	0.0	4.7	4.7	4.7	9.3	9.3	9.3	9.3	9.3	9.3
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°	6694.9	6694.9	6694.9	6694.9	6694.9	6694.9	6694.9	6694.9	6694.9	6694.9	6694.9
2.5°	6760.1	6774.0	6750.8	6746.1	6727.5	6783.4	6648.3	6615.8	6699.6	6620.4	6639.0
5°	6848.5	6881.1	6839.2	6769.4	6667.0	6508.7	6373.7	6196.7	6112.9	6052.4	6043.1
7.5°	6913.7	6937.0	6895.1	6671.6	6364.3	5964.0	5666.0	5447.2	5274.9	5223.7	5139.9
10°	7179.1	7183.7	6974.2	6480.7	5880.2	5354.1	4897.8	4562.6	4390.3	4283.2	4236.7
12.5°	7356.0	7346.7	6923.0	6103.6	5302.8	4604.5	4083.1	3678.0	3519.7	3468.5	3435.9
15°	7579.5	7528.3	6802.0	5717.2	4557.9	3803.7	3333.5	3054.1	3040.2	3007.6	3040.2
17.5°	7756.4	7612.1	6625.1	5014.2	3845.6	3133.3	2826.0	2844.6	2881.9	2914.5	2919.1
20°	8045.1	7747.1	6220.0	4399.6	3184.5	2686.3	2681.7	2765.5	2858.6	2895.8	2933.1
22.5°	8263.9	7803.0	5787.0	3743.2	2644.4	2504.8	2583.9	2709.6	2779.5	2816.7	2872.6
25°	8343.0	7649.3	5209.7	3086.7	2383.7	2421.0	2542.0	2625.8	2714.3	2756.2	2732.9
27.5°	8422.2	7570.2	4520.7	2542.0	2244.0	2365.1	2467.5	2551.3	2579.3	2635.1	2672.4
30°	8613.0	7295.5	3901.5	2197.5	2174.2	2327.9	2402.3	2430.3	2504.8	2537.4	2537.4
32.5°	8766.7	7188.4	3245.0	2034.5	2164.9	2346.5	2355.8	2355.8	2365.1	2341.8	2332.5
35°	9083.3	6820.6	2658.4	1936.8	2160.2	2351.1	2374.4	2295.3	2081.1	1997.3	1974.0
37.5°	9474.4	6583.2	2225.4	1913.5	2192.8	2407.0	2444.2	2146.3	1866.9	1731.9	1708.6
40°	9949.2	6415.6	1941.4	1904.2	2267.3	2537.4	2425.6	2029.9	1666.7	1471.2	1461.9
42.5°	10503.3	6261.9	1750.5	1899.5	2360.4	2672.4	2407.0	1932.1	1461.9	1331.5	1350.2
45°	10945.6	6178.1	1620.2	1866.9	2393.0	2751.5	2421.0	1759.9	1378.1	1294.3	1303.6
47.5°	11290.1	6001.2	1513.1	1811.1	2388.4	2779.5	2295.3	1690.0	1336.2	1359.5	1382.7
50°	11299.4	5763.8	1378.1	1690.0	2318.5	2728.2	2150.9	1624.8	1326.9	1424.6	1471.2
52.5°	11173.7	5428.5	1233.8	1517.8	2155.6	2551.3	2020.6	1596.9	1285.0	1275.7	1331.5
55°	10726.7	4800.0	991.7	1229.1	1820.4	2104.4	1904.2	1545.7	1159.3	1052.2	1061.5
57.5°	8668.9	3440.6	730.9	879.9	1289.6	1541.0	1718.0	1522.4	1042.9	893.9	898.6
60°	5368.0	1950.7	535.4	600.6	796.1	935.8	1392.1	1415.3	931.1	754.2	744.9
62.5°	2756.2	963.7	414.4	423.7	488.8	549.4	954.4	1187.2	842.7	717.0	717.0
65°	921.8	474.9	363.1	325.9	325.9	339.9	577.3	824.1	712.3	600.6	600.6
67.5°	395.7	353.8	316.6	284.0	260.7	246.8	325.9	479.5	530.8	456.3	437.6
70°	307.3	298.0	274.7	237.4	204.9	186.2	190.9	246.8	302.6	293.3	284.0
72.5°	228.1	228.1	218.8	186.2	158.3	135.0	125.7	130.4	144.3	149.0	153.6
75°	158.3	162.9	162.9	144.3	116.4	97.8	83.8	69.8	55.9	46.6	41.9
77.5°	107.1	111.7	121.0	107.1	88.5	65.2	51.2	37.2	23.3	9.3	9.3
80°	93.1	107.1	116.4	107.1	93.1	69.8	51.2	27.9	14.0	0.0	0.0
82.5°	97.8	107.1	121.0	102.4	88.5	65.2	51.2	32.6	14.0	4.7	0.0
85°	23.3	23.3	27.9	32.6	41.9	46.6	37.2	23.3	14.0	4.7	0.0
87.5°	9.3	9.3	9.3	9.3	9.3	4.7	4.7	4.7	4.7	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)