

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: P647293

Luminaire Tested: **GALN-SA2D-835-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9752.3 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

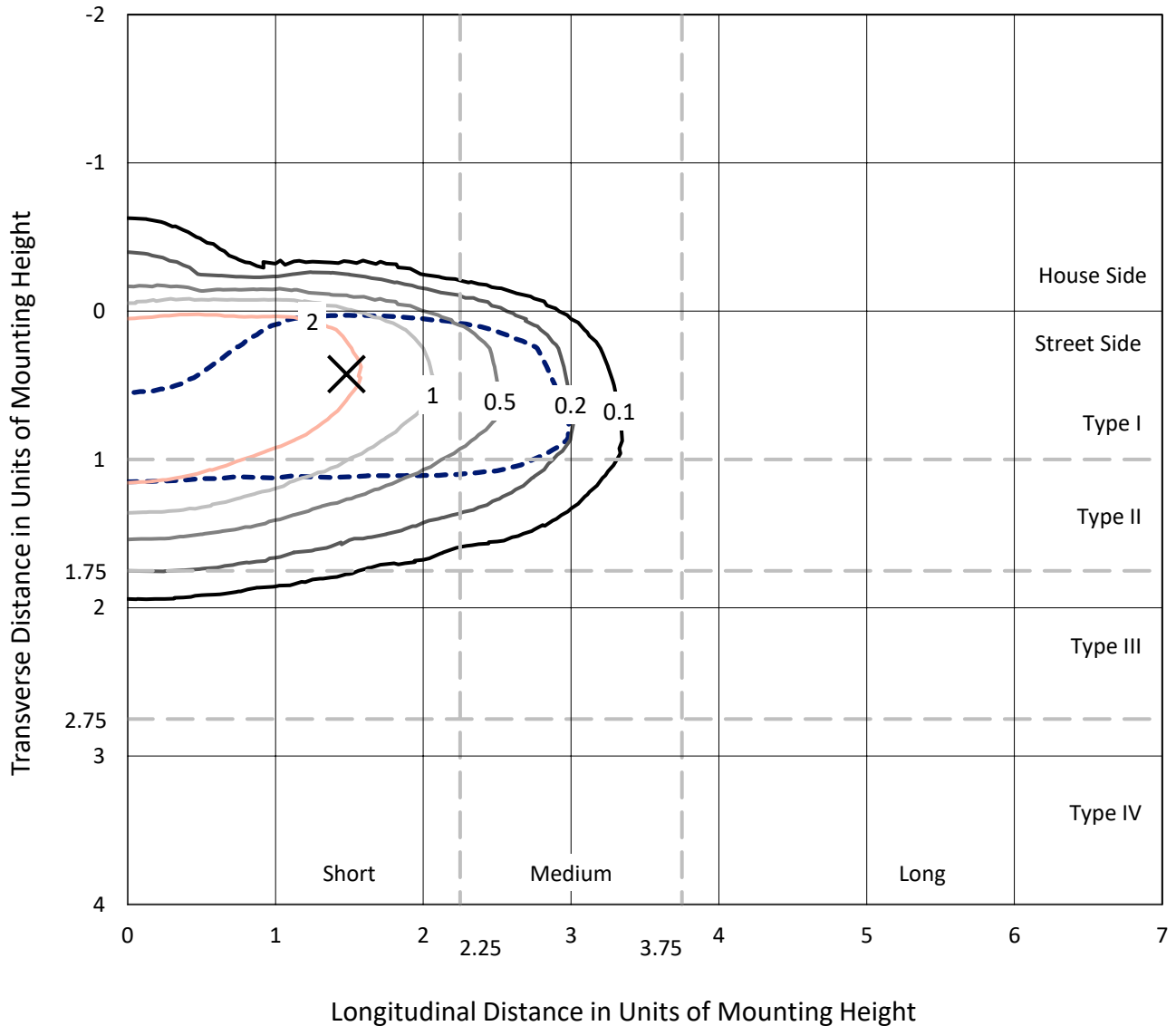
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

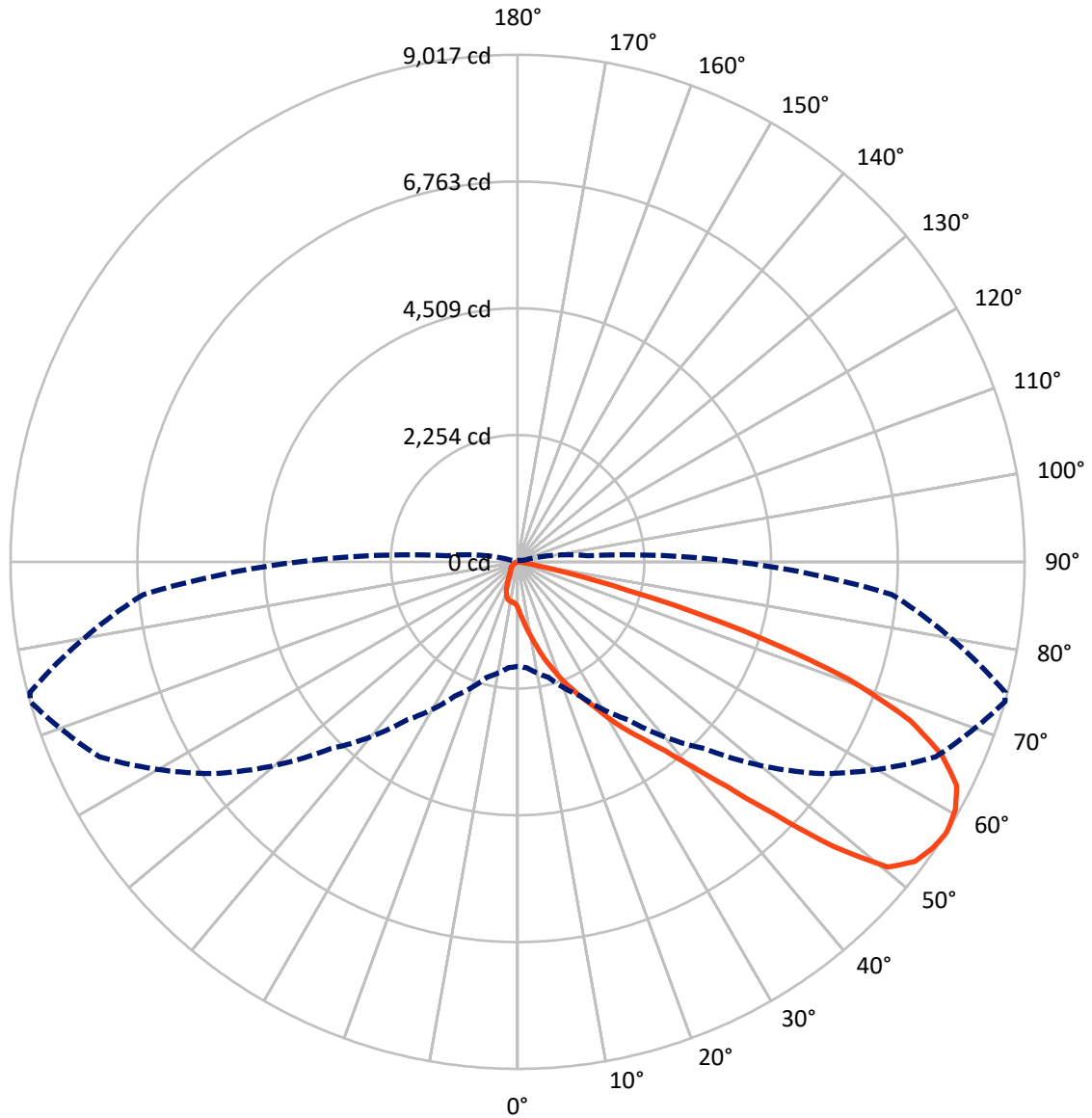
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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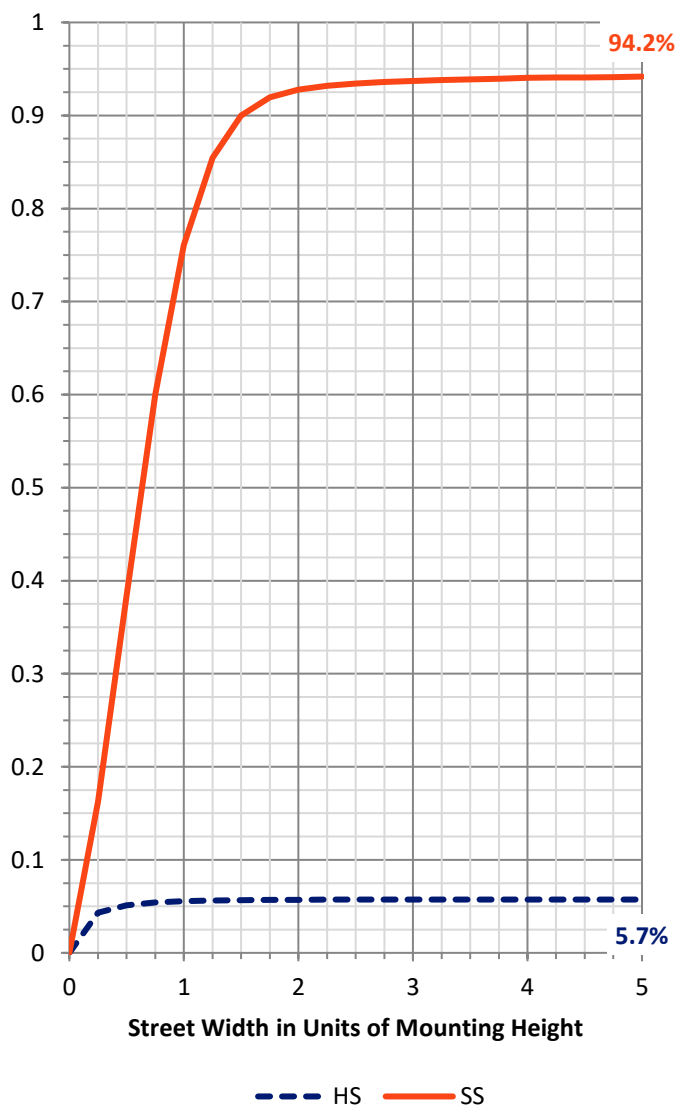
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	562.5	0.0	562.5
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	9189.8	0.0	9189.8
	% Fixture	94.2	0.0	94.2
Total	Lumens	9752.3	0.0	9752.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	1.0
10°-20°	388.6	4.0
20°-30°	831.4	8.5
30°-40°	1528.2	15.7
40°-50°	2342.7	24.0
50°-60°	2478.3	25.4
60°-70°	1618.4	16.6
70°-80°	442.2	4.5
80°-90°	23.8	0.2
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°	9752.3	100.0
0°-180°	9752.3	100.0

Coefficient of Utilization

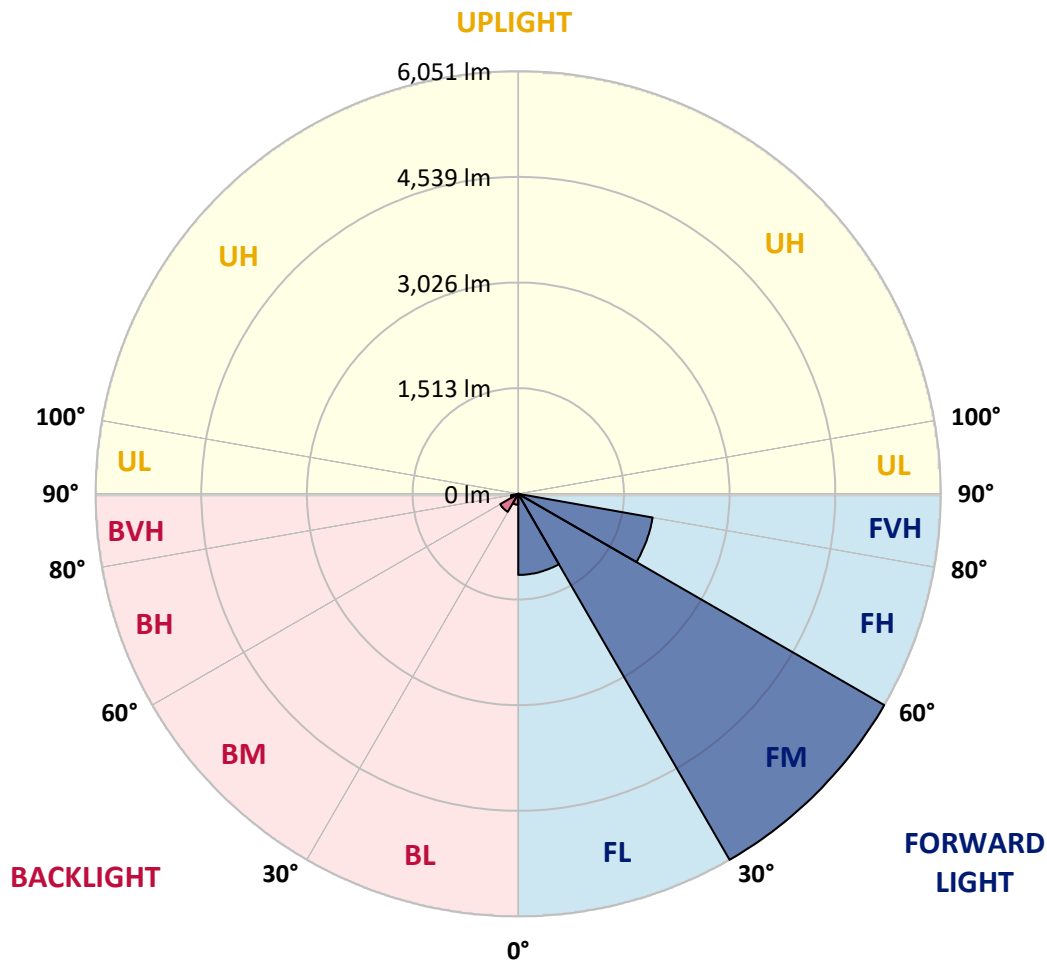


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1161.5	11.9			
FM (30°-60°)	6051.5	62.1			
FH (60°-80°)	1955.0	20.0			G2/5000
FVH (80°-90°)	21.8	0.2			G1/100
BL (0°-30°)	157.1	1.6	B1/500		
BM (30°-60°)	297.8	3.1	B1/1000		
BH (60°-80°)	105.6	1.1	B0/110		G0/110
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	816.7	816.7	816.7	816.7	816.7	816.7	816.7	816.7	816.7	816.7	816.7
2.5°	1195.2	1184.4	1162.8	1155.4	1123.8	1074.6	1031.5	973.7	927.9	923.2	867.9
5°	1600.5	1576.3	1566.2	1517.7	1441.6	1370.2	1247.6	1154.8	1047.7	1039.6	928.5
7.5°	1991.0	1957.3	1947.2	1901.4	1812.6	1700.1	1541.3	1372.2	1202.5	1187.0	1010.0
10°	2273.8	2278.5	2260.4	2230.1	2158.0	2043.6	1847.6	1616.7	1374.9	1355.4	1101.5
12.5°	2476.5	2475.8	2479.1	2478.5	2440.1	2353.2	2147.2	1881.2	1564.8	1526.5	1206.6
15°	2608.5	2610.4	2620.5	2655.5	2659.6	2605.7	2434.0	2134.5	1785.0	1737.2	1320.4
17.5°	2741.8	2755.9	2772.1	2805.1	2834.7	2813.2	2692.0	2398.4	1984.3	1948.6	1442.3
20°	2961.9	2981.5	2972.0	2992.2	3007.7	3009.8	2916.1	2642.1	2226.0	2166.1	1581.7
22.5°	3314.1	3313.4	3289.1	3252.8	3222.5	3221.2	3136.3	2892.6	2445.5	2387.6	1721.7
25°	3759.2	3761.1	3714.1	3610.3	3534.9	3442.7	3345.1	3112.1	2680.5	2609.1	1869.2
27.5°	4269.5	4256.8	4185.4	4042.6	3893.2	3735.6	3594.8	3367.3	2929.6	2870.4	2038.1
30°	4728.1	4723.4	4639.8	4465.4	4268.8	4110.6	3906.6	3687.1	3252.1	3179.4	2227.3
32.5°	5155.0	5161.7	5045.9	4865.4	4675.5	4493.1	4277.6	3992.8	3568.6	3465.6	2433.4
35°	5488.3	5495.0	5375.1	5225.0	5029.7	4878.2	4672.9	4318.7	3881.0	3794.2	2670.4
37.5°	5666.0	5674.8	5605.4	5492.3	5370.4	5294.3	5103.1	4738.2	4260.8	4208.2	2950.5
40°	5699.7	5709.8	5679.5	5649.2	5642.5	5697.0	5641.1	5232.4	4787.3	4705.2	3367.9
42.5°	5598.7	5612.2	5625.6	5693.0	5830.3	6030.3	6224.8	5903.0	5465.3	5354.9	3878.4
45°	5333.4	5332.1	5385.2	5559.6	5867.3	6294.2	6834.9	6742.6	6389.1	6257.9	4599.5
47.5°	4879.6	4872.8	4987.9	5236.4	5715.8	6342.7	7332.5	7762.0	7568.2	7447.0	5374.4
50°	4188.0	4221.1	4402.2	4749.0	5339.4	6195.9	7486.0	8430.6	8535.7	8407.1	6000.7
52.5°	3378.0	3376.7	3660.8	4131.5	4781.9	5872.7	7378.9	8551.8	8850.2	8751.8	6309.0
55°	2500.0	2517.6	2813.2	3287.8	4058.1	5282.9	7029.5	8427.3	8970.0	8900.7	6512.4
57°	1859.7	1890.7	2127.7	2630.0	3427.9	4699.1	6564.2	8204.4	9017.1	8979.4	6681.3
57.5°	1735.8	1737.2	1968.1	2424.6	3243.4	4474.9	6430.9	8111.5	9015.8	8994.9	6709.0
60°	1068.6	1102.2	1261.8	1638.9	2374.1	3492.5	5537.4	7577.6	8945.8	8976.1	6826.8
62.5°	639.6	653.8	757.5	987.8	1530.5	2549.2	4531.5	6894.2	8763.3	8855.5	6818.8
65°	411.4	414.8	461.9	597.9	956.8	1723.1	3491.9	5991.2	8291.3	8460.9	6552.1
67.5°	317.8	323.2	342.0	392.5	554.8	1073.3	2469.7	5027.7	7527.8	7746.5	5905.7
70°	282.1	284.8	291.5	307.7	367.0	606.0	1536.6	3927.4	6242.4	6304.3	4621.7
72.5°	230.3	237.7	258.5	263.9	290.9	378.4	855.1	2636.0	4194.1	4209.6	2585.5
75°	178.4	179.8	210.8	226.2	245.1	260.6	381.8	1329.1	2014.6	1906.8	996.5
77.5°	133.3	139.4	153.5	173.0	200.0	186.5	171.0	501.0	625.5	614.1	289.6
80°	85.5	88.9	107.0	130.0	155.5	121.8	96.3	146.8	137.3	141.4	69.4
82.5°	43.1	43.8	68.7	105.7	99.0	61.3	60.6	59.9	51.2	50.5	32.3
85°	4.7	10.1	44.5	60.6	44.5	20.2	28.3	27.6	26.9	27.6	18.9
87.5°	0.7	0.7	7.4	8.8	6.0	6.7	8.1	8.8	10.8	10.1	8.1
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°	816.7	816.7	816.7	816.7	816.7	816.7	816.7	816.7	816.7	816.7	816.7
2.5°	840.9	814.1	764.2	716.4	680.7	657.8	628.2	617.5	602.0	599.9	592.5
5°	877.4	826.1	739.3	670.6	615.4	573.7	537.3	507.0	482.8	477.4	480.1
7.5°	929.2	853.1	731.9	638.3	561.6	490.2	432.3	396.6	371.0	361.6	362.9
10°	987.8	888.8	730.5	604.0	486.8	399.3	336.0	304.4	289.6	284.2	278.0
12.5°	1057.1	929.9	727.2	550.8	404.7	318.4	273.3	254.6	240.4	236.3	236.3
15°	1135.2	973.7	711.0	484.8	328.5	263.2	232.9	218.1	213.4	209.4	209.4
17.5°	1216.7	1016.7	677.4	403.3	272.7	225.6	206.7	197.9	191.2	186.5	186.5
20°	1309.6	1059.2	623.5	331.3	230.3	201.3	186.5	176.4	171.0	167.0	165.6
22.5°	1397.8	1093.5	554.8	272.0	200.7	181.1	167.6	156.9	151.5	149.5	149.5
25°	1489.4	1114.4	472.0	224.9	183.1	164.3	149.5	140.7	136.0	134.7	134.0
27.5°	1578.3	1126.5	399.3	196.6	167.0	148.8	134.7	127.9	123.2	121.8	122.5
30°	1686.0	1128.5	328.5	176.4	152.8	134.0	121.2	115.1	112.4	111.1	110.4
32.5°	1795.1	1125.8	276.1	164.3	139.4	121.2	110.4	105.7	103.7	101.6	101.6
35°	1917.6	1111.6	235.0	152.1	126.6	110.4	101.0	96.9	94.3	92.2	91.5
37.5°	2069.8	1104.3	211.4	138.7	115.1	100.3	91.5	87.5	85.5	82.8	82.1
40°	2309.5	1137.2	204.0	126.6	103.7	90.9	82.8	78.1	75.4	72.7	72.0
42.5°	2608.5	1195.2	191.9	114.5	93.6	82.1	74.1	68.7	64.0	60.6	59.3
45°	2995.6	1271.2	173.0	101.6	84.9	72.7	65.3	58.6	52.5	49.8	49.2
47.5°	3401.6	1344.6	156.2	91.5	75.4	64.7	56.5	49.2	43.8	41.7	41.1
50°	3650.7	1359.4	145.4	80.1	66.0	55.9	47.8	41.1	37.7	35.7	35.7
52.5°	3764.5	1335.9	130.6	70.0	57.2	49.2	41.1	35.7	33.7	32.3	31.6
55°	3844.0	1299.5	111.1	60.6	49.2	41.7	36.3	32.3	29.6	28.3	27.6
57°	3890.5	1250.4	96.3	53.2	42.4	36.3	32.3	29.0	26.2	23.6	23.6
57.5°	3892.4	1231.5	92.2	52.5	40.4	35.0	31.6	28.3	24.9	22.2	21.5
60°	3832.6	1102.2	74.1	44.5	32.3	29.6	26.2	22.2	17.5	14.8	14.2
62.5°	3640.0	938.0	61.3	37.7	26.2	22.9	18.9	16.8	12.1	8.8	8.8
65°	3348.4	760.8	52.5	30.3	21.5	16.8	12.8	12.1	7.4	4.1	3.4
67.5°	2926.9	592.5	44.5	24.9	18.2	12.1	8.8	8.1	4.1	1.3	0.0
70°	2230.1	404.0	37.0	20.2	13.5	8.8	6.0	4.7	2.7	0.7	0.0
72.5°	1285.4	222.2	31.0	15.5	10.1	6.7	4.7	2.7	2.7	0.0	0.0
75°	459.2	95.6	23.6	11.4	8.1	5.4	3.4	1.3	2.0	0.7	0.0
77.5°	146.1	51.2	15.5	8.8	6.7	4.1	2.7	1.3	1.3	0.7	0.0
80°	43.1	26.9	9.4	7.4	4.7	3.4	2.0	0.7	1.3	0.7	0.0
82.5°	23.6	13.5	7.4	5.4	4.7	2.7	2.0	0.7	0.7	0.7	0.0
85°	12.1	8.1	6.0	5.4	4.7	2.7	2.0	0.7	0.0	0.7	0.7
87.5°	6.7	6.0	6.0	5.4	4.7	3.4	2.0	0.7	0.0	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)