

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: P527773

Luminaire Tested: **GALN-SA2D-740-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-740-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10289 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G1

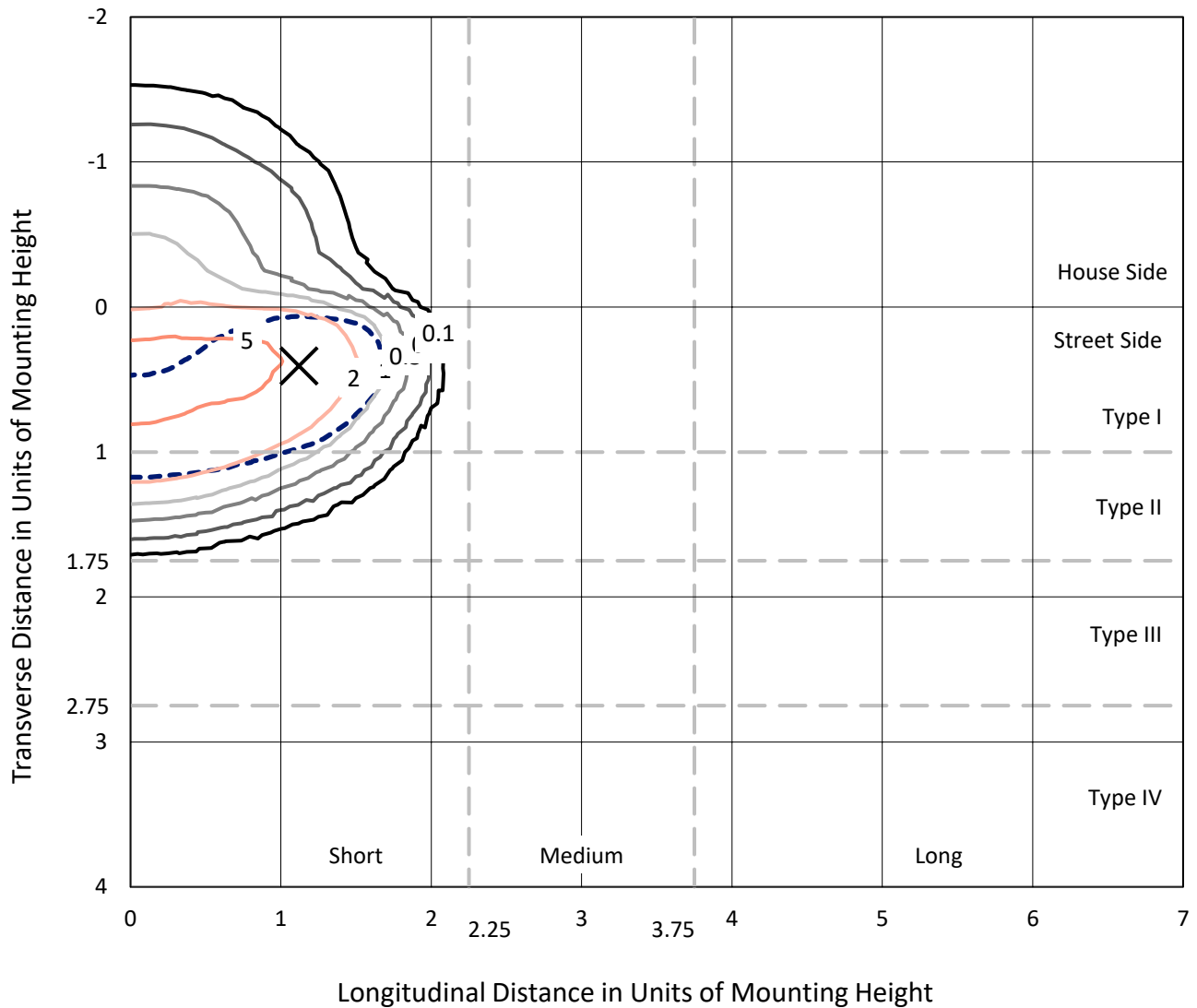
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

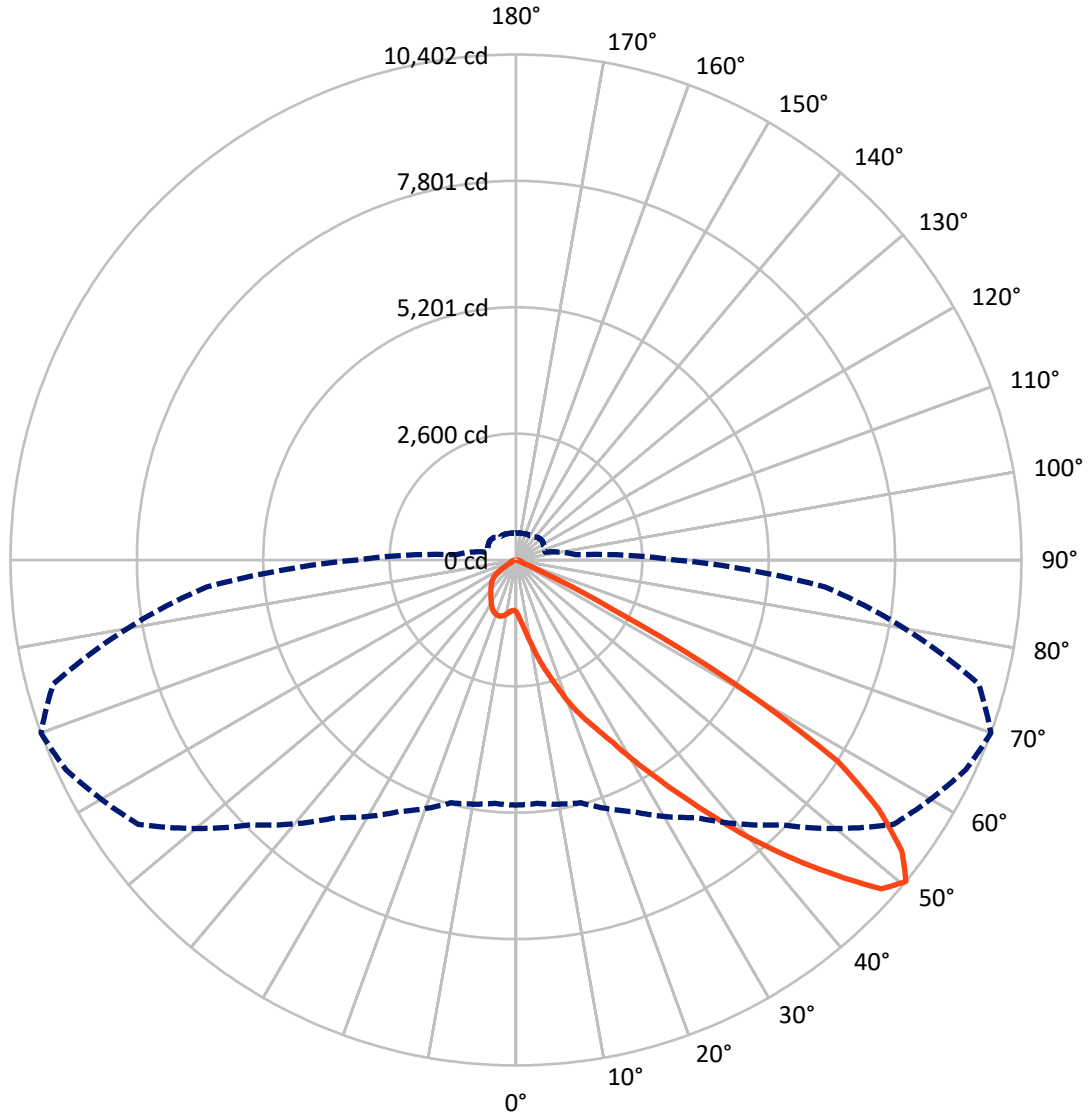
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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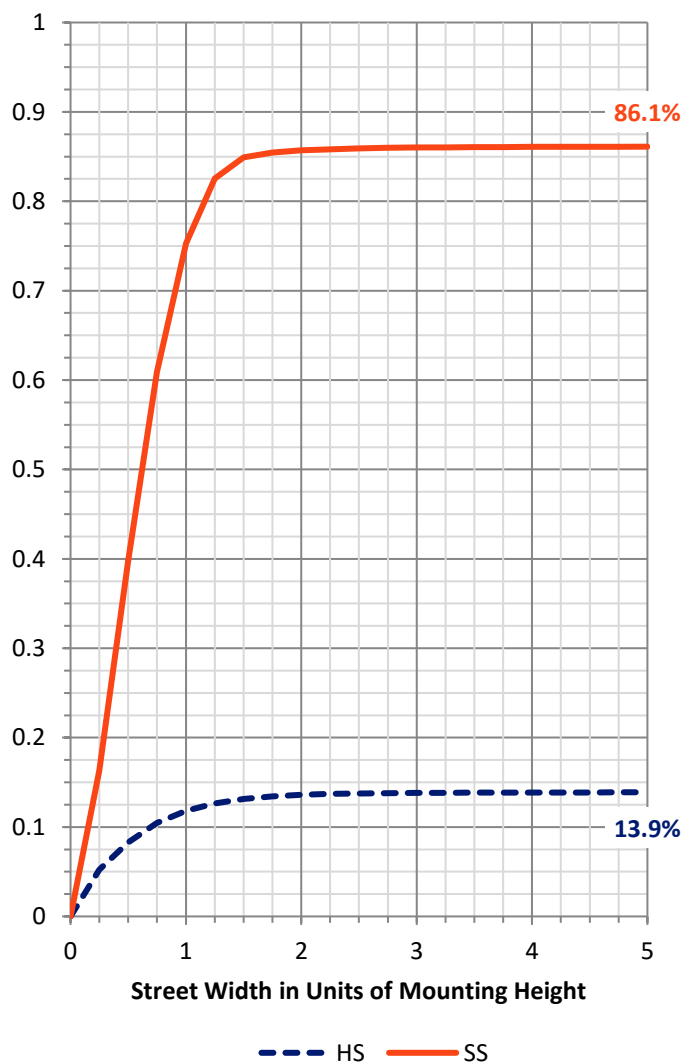
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1436.9	0.0	1436.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	8852.1	0.0	8852.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	10289.0	0.0	10289.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.6	1.3
10°-20°	599.5	5.8
20°-30°	1257.6	12.2
30°-40°	2167.7	21.1
40°-50°	3168.0	30.8
50°-60°	2467.4	24.0
60°-70°	418.0	4.1
70°-80°	57.4	0.6
80°-90°	14.9	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°	10289.0	100.0
0°-180°	10289.0	100.0

Coefficient of Utilization



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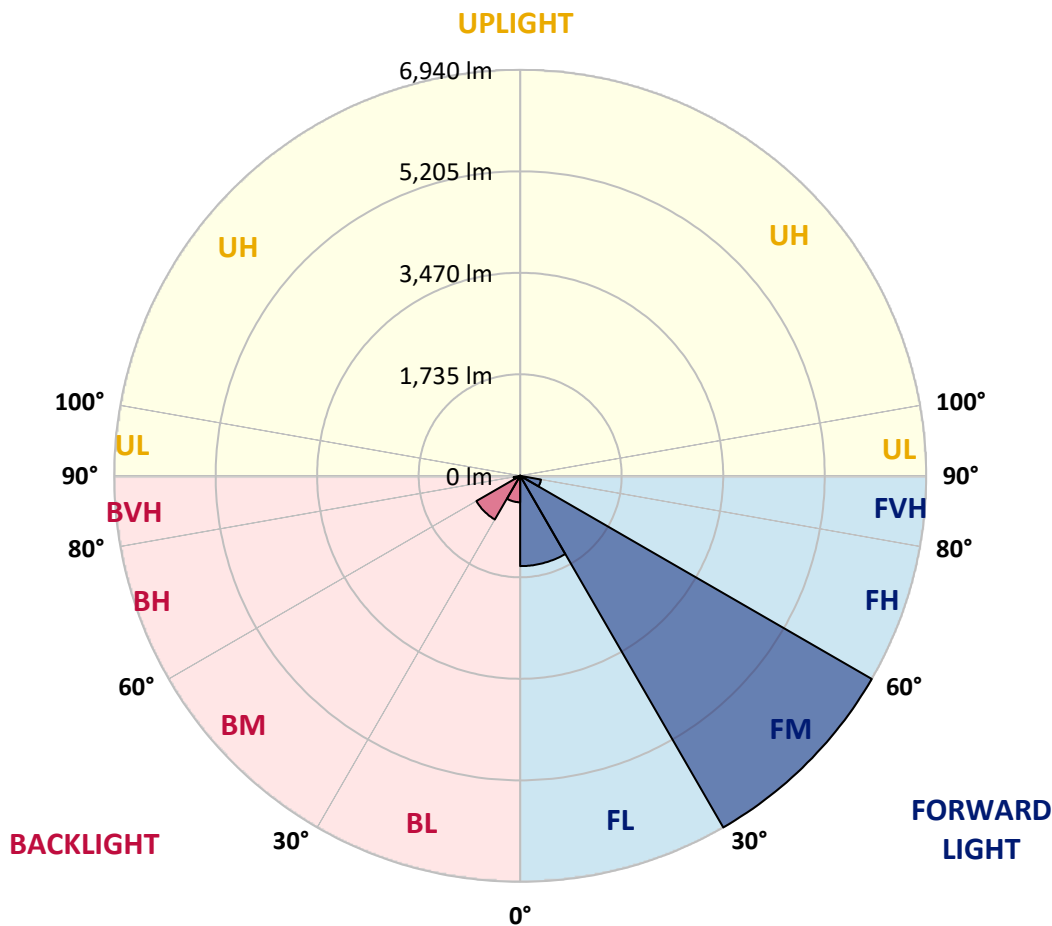
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1543.5	15.0			
FM (30°-60°)	6939.8	67.4			
FH (60°-80°)	362.0	3.5			G0/660
FVH (80°-90°)	6.9	0.1			G0/10
BL (0°-30°)	452.2	4.4	B1/500		
BM (30°-60°)	863.3	8.4	B1/1000		
BH (60°-80°)	113.5	1.1	B1/500		G1/500
BVH (80°-90°)	8.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1065.7	1065.7	1065.7	1065.7	1065.7	1065.7	1065.7	1065.7	1065.7	1065.7	1065.7
2.5°	1395.6	1385.5	1363.5	1322.9	1306.0	1265.4	1241.7	1196.0	1167.2	1135.1	1099.6
5°	1965.7	1913.3	1881.1	1835.4	1701.8	1618.9	1481.9	1365.2	1311.0	1251.8	1170.6
7.5°	2554.4	2520.6	2476.6	2378.5	2287.1	2114.6	1879.4	1622.3	1512.3	1410.8	1250.1
10°	3041.6	2946.8	2941.8	2869.0	2769.2	2562.8	2280.3	1960.6	1764.4	1615.5	1363.5
12.5°	3381.6	3295.3	3334.2	3325.8	3232.7	3043.3	2716.8	2293.9	2089.2	1857.4	1480.2
15°	3691.2	3655.6	3643.8	3633.7	3596.4	3456.0	3163.4	2699.9	2403.8	2124.7	1612.1
17.5°	3994.0	3902.6	3946.6	3955.1	3951.7	3824.8	3550.8	3085.6	2737.1	2407.2	1750.9
20°	4263.0	4271.4	4212.2	4200.4	4190.2	4185.1	3917.9	3467.9	3146.5	2703.3	1931.9
22.5°	4608.0	4548.8	4601.3	4567.4	4501.5	4460.9	4256.2	3806.2	3501.7	3060.2	2116.3
25°	5015.7	5063.1	4939.6	4926.1	4853.3	4712.9	4528.5	4185.1	3843.4	3391.8	2315.9
27.5°	5518.2	5435.3	5403.1	5328.7	5196.7	5137.5	4921.0	4575.9	4256.2	3740.2	2508.7
30°	5949.5	5927.5	5766.8	5678.9	5563.8	5562.1	5259.3	5105.4	4794.1	4286.6	2774.3
32.5°	6301.4	6205.0	6145.8	6084.9	5991.8	6017.2	5761.8	5680.6	5367.6	4794.1	3087.3
35°	6536.5	6467.2	6431.6	6338.6	6311.5	6424.9	6318.3	6284.5	6027.3	5508.0	3454.3
37.5°	6611.0	6632.9	6626.2	6509.5	6567.0	6873.2	7010.2	6922.2	6786.9	6260.8	3851.9
40°	6676.9	6692.2	6658.3	6795.3	6959.4	7307.9	7803.6	7658.1	7607.3	7023.7	4405.0
42.5°	6714.1	6702.3	6702.3	6939.1	7187.8	7888.2	8569.9	8473.5	8434.6	7835.7	5044.5
45°	6553.4	6438.4	6561.9	6883.3	7384.0	8174.0	9182.3	9315.9	9260.1	8801.6	5792.2
47.5°	5952.9	6024.0	6093.3	6523.0	7145.5	8086.1	9557.8	10012.9	10116.1	9613.6	6282.8
50°	5044.5	5029.3	5173.1	5714.4	6470.6	7707.1	9485.1	10214.2	10401.9	9857.2	6386.0
52.5°	3669.2	3780.8	3936.5	4474.4	5371.0	6726.0	8546.2	9694.8	9945.2	9557.8	6318.3
55°	2136.6	2013.1	2363.2	2818.3	3664.1	5073.3	7225.0	8593.6	9057.1	9013.1	5976.6
57.5°	856.0	828.9	949.0	1278.9	1911.6	3144.8	5254.3	7060.9	7803.6	8255.2	5252.6
60°	375.5	367.1	431.4	521.0	781.5	1449.7	2874.1	4391.5	5166.3	5768.5	3615.1
62.5°	270.7	267.3	299.4	331.6	412.8	631.0	1207.8	1769.5	2205.9	2664.3	1618.9
65°	218.2	226.7	248.7	265.6	304.5	350.2	426.3	492.3	603.9	625.9	356.9
67.5°	177.6	184.4	204.7	223.3	230.1	189.5	196.2	172.5	172.5	153.9	123.5
70°	130.3	131.9	155.6	177.6	142.1	76.1	133.6	133.6	120.1	115.0	104.9
72.5°	96.4	98.1	116.7	110.0	55.8	47.4	98.1	108.3	98.1	93.0	84.6
75°	71.0	72.7	60.9	25.4	23.7	30.4	57.5	74.4	71.0	69.4	64.3
77.5°	13.5	10.1	8.5	11.8	16.9	25.4	37.2	45.7	47.4	50.7	47.4
80°	1.7	1.7	5.1	10.1	18.6	27.1	38.9	44.0	45.7	47.4	44.0
82.5°	0.0	1.7	5.1	10.1	18.6	25.4	33.8	38.9	42.3	44.0	42.3
85°	0.0	1.7	3.4	8.5	15.2	18.6	16.9	11.8	10.1	11.8	8.5
87.5°	0.0	0.0	1.7	1.7	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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°	1065.7	1065.7	1065.7	1065.7	1065.7	1065.7	1065.7	1065.7	1065.7	1065.7	1065.7
2.5°	1079.3	1072.5	1048.8	1023.4	1001.5	1011.6	1001.5	993.0	996.4	993.0	989.6
5°	1138.5	1108.0	1057.3	1035.3	1016.7	1015.0	1009.9	1008.2	1009.9	1009.9	994.7
7.5°	1194.3	1145.2	1091.1	1067.4	1045.4	1047.1	1035.3	1035.3	1033.6	1025.1	1021.8
10°	1278.9	1212.9	1143.6	1101.3	1074.2	1069.1	1057.3	1045.4	1045.4	1045.4	1028.5
12.5°	1371.9	1289.0	1194.3	1145.2	1113.1	1087.7	1069.1	1065.7	1047.1	1043.7	1035.3
15°	1453.1	1348.2	1228.1	1160.5	1119.9	1086.0	1057.3	1038.7	1030.2	1025.1	1018.4
17.5°	1532.6	1399.0	1246.7	1160.5	1116.5	1077.6	1047.1	1030.2	1009.9	1013.3	999.8
20°	1639.2	1453.1	1251.8	1138.5	1084.3	1047.1	1006.5	998.1	986.2	976.1	979.5
22.5°	1742.4	1492.0	1236.6	1111.4	1033.6	989.6	969.3	959.2	954.1	945.6	933.8
25°	1835.4	1534.3	1212.9	1062.4	979.5	947.3	928.7	927.0	915.2	915.2	893.2
27.5°	1930.2	1549.5	1172.3	1004.8	932.1	913.5	905.0	901.6	896.6	884.7	869.5
30°	2038.4	1554.6	1113.1	945.6	889.8	869.5	881.3	889.8	867.8	845.8	852.6
32.5°	2128.1	1542.8	1042.1	889.8	859.4	849.2	872.9	881.3	856.0	832.3	820.4
35°	2236.4	1514.0	972.7	845.8	828.9	849.2	869.5	869.5	818.8	790.0	783.2
37.5°	2400.4	1481.9	908.4	808.6	796.8	839.1	866.1	847.5	768.0	732.5	724.0
40°	2576.4	1461.6	845.8	771.4	779.8	822.1	837.4	779.8	698.7	676.7	669.9
42.5°	2831.8	1421.0	790.0	739.2	764.6	798.5	798.5	695.3	664.8	653.0	651.3
45°	3149.8	1392.2	740.9	712.2	742.6	751.1	724.0	651.3	629.3	625.9	627.6
47.5°	3305.5	1336.4	690.2	680.0	702.0	703.7	632.7	615.8	597.2	592.1	588.7
50°	3281.8	1236.6	624.2	637.8	668.2	651.3	576.9	580.2	563.3	561.6	553.2
52.5°	3116.0	1079.3	558.2	590.4	624.2	575.2	531.2	527.8	527.8	505.8	497.3
55°	2762.5	869.5	478.7	519.3	559.9	483.8	472.0	468.6	460.1	439.8	434.8
57.5°	2187.3	637.8	360.3	404.3	475.4	411.1	409.4	394.2	372.2	356.9	356.9
60°	1300.9	367.1	226.7	247.0	314.6	333.3	370.5	363.7	326.5	302.8	296.0
62.5°	593.8	189.5	143.8	147.2	169.2	216.5	291.0	336.6	284.2	243.6	240.2
65°	199.6	140.4	118.4	113.3	116.7	130.3	174.2	238.5	226.7	187.8	181.0
67.5°	121.8	125.2	111.6	103.2	103.2	101.5	99.8	108.3	133.6	130.3	131.9
70°	104.9	115.0	103.2	93.0	89.7	84.6	71.0	59.2	50.7	59.2	62.6
72.5°	84.6	91.3	88.0	79.5	71.0	64.3	50.7	38.9	28.8	25.4	25.4
75°	62.6	67.7	71.0	60.9	54.1	45.7	37.2	25.4	15.2	10.1	10.1
77.5°	45.7	50.7	52.4	47.4	40.6	32.1	23.7	16.9	8.5	3.4	3.4
80°	38.9	45.7	50.7	47.4	42.3	30.4	22.0	11.8	6.8	1.7	1.7
82.5°	37.2	45.7	50.7	45.7	40.6	28.8	22.0	13.5	5.1	1.7	1.7
85°	8.5	11.8	15.2	18.6	22.0	22.0	16.9	10.1	5.1	1.7	1.7
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	1.7	1.7	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)