

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: P529643

Luminaire Tested: **GALN-SA4D-740-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
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-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18052 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

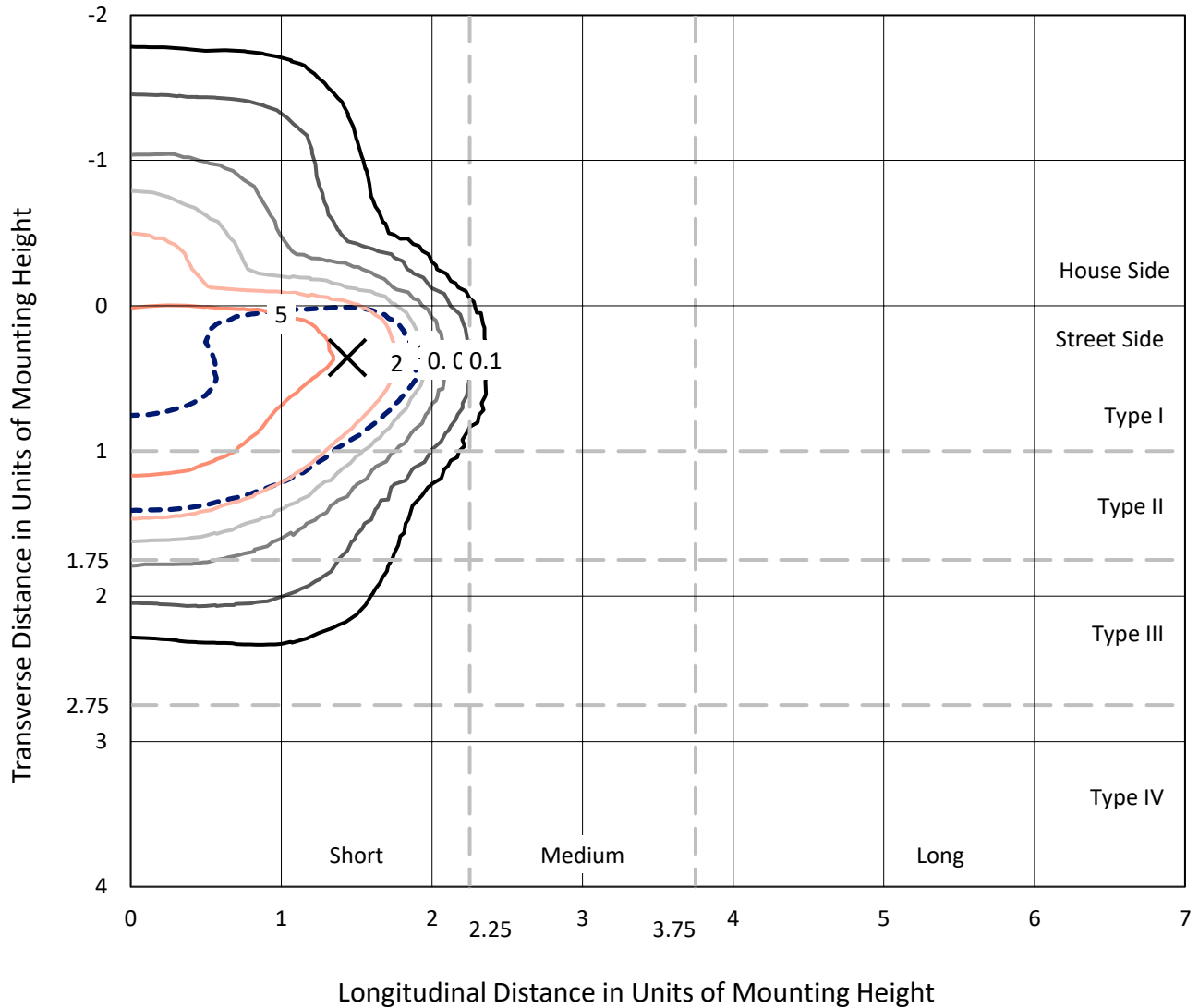
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

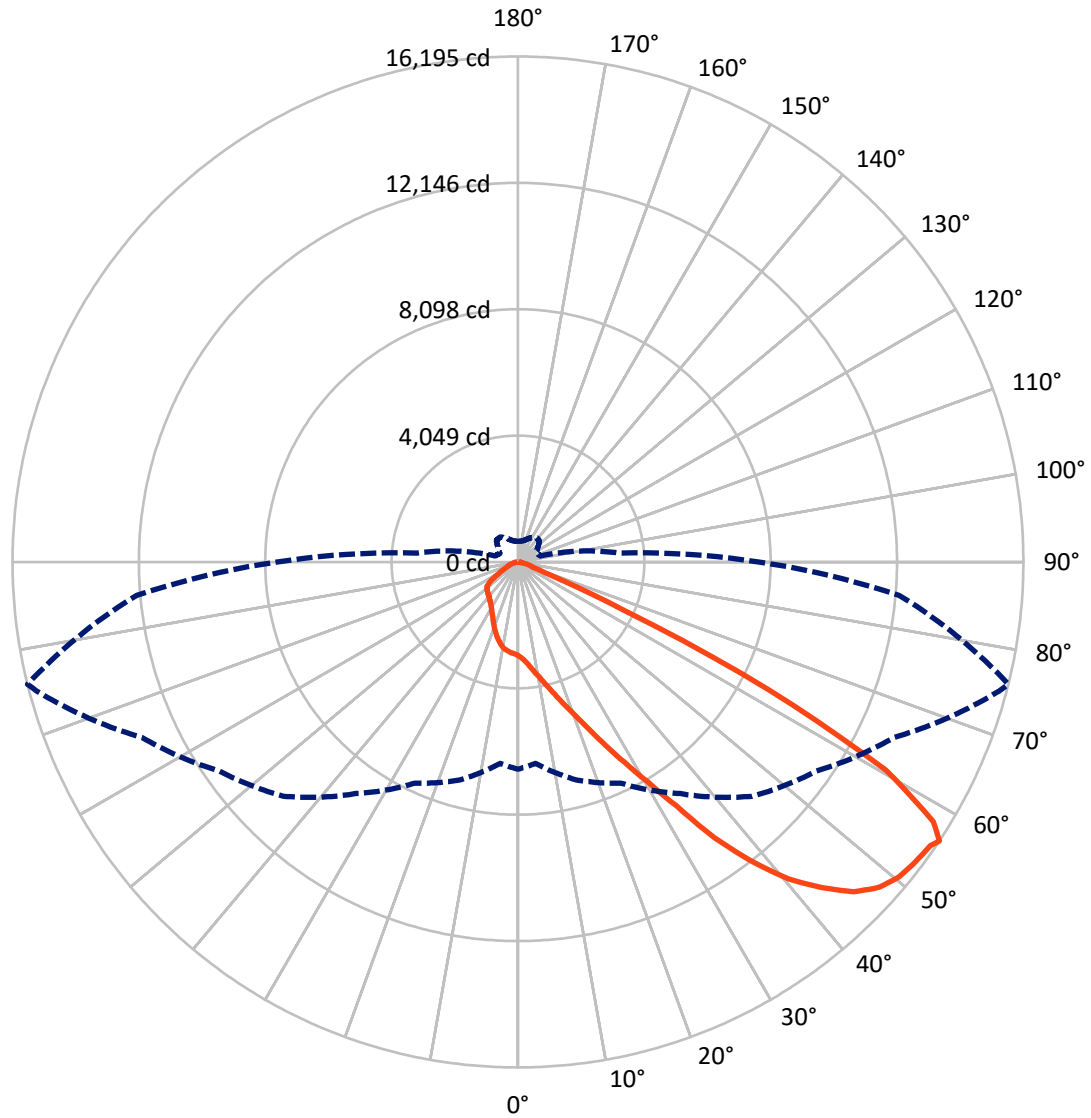
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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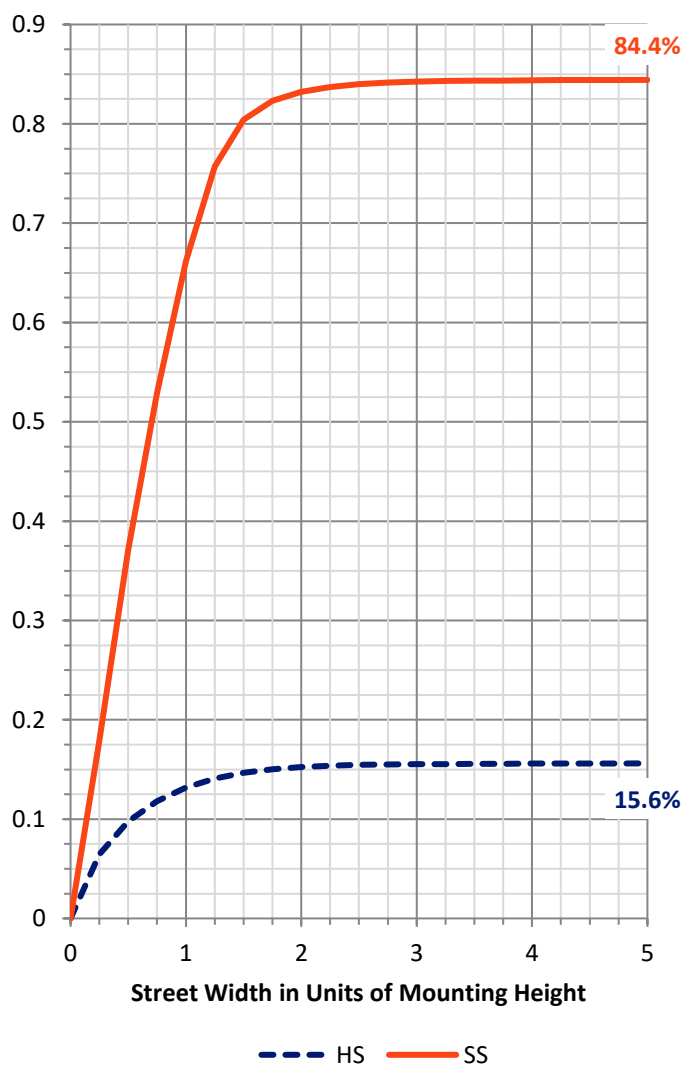
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2835.9	0.0	2835.9
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	15216.1	0.0	15216.1
	% Fixture	84.3	0.0	84.3
Total	Lumens	18052.0	0.0	18052.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.7	1.7
10°-20°	972.4	5.4
20°-30°	1763.3	9.8
30°-40°	3040.9	16.8
40°-50°	4940.0	27.4
50°-60°	5206.9	28.8
60°-70°	1590.9	8.8
70°-80°	203.9	1.1
80°-90°	31.0	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°	18052.0	100.0
0°-180°	18052.0	100.0

Coefficient of Utilization

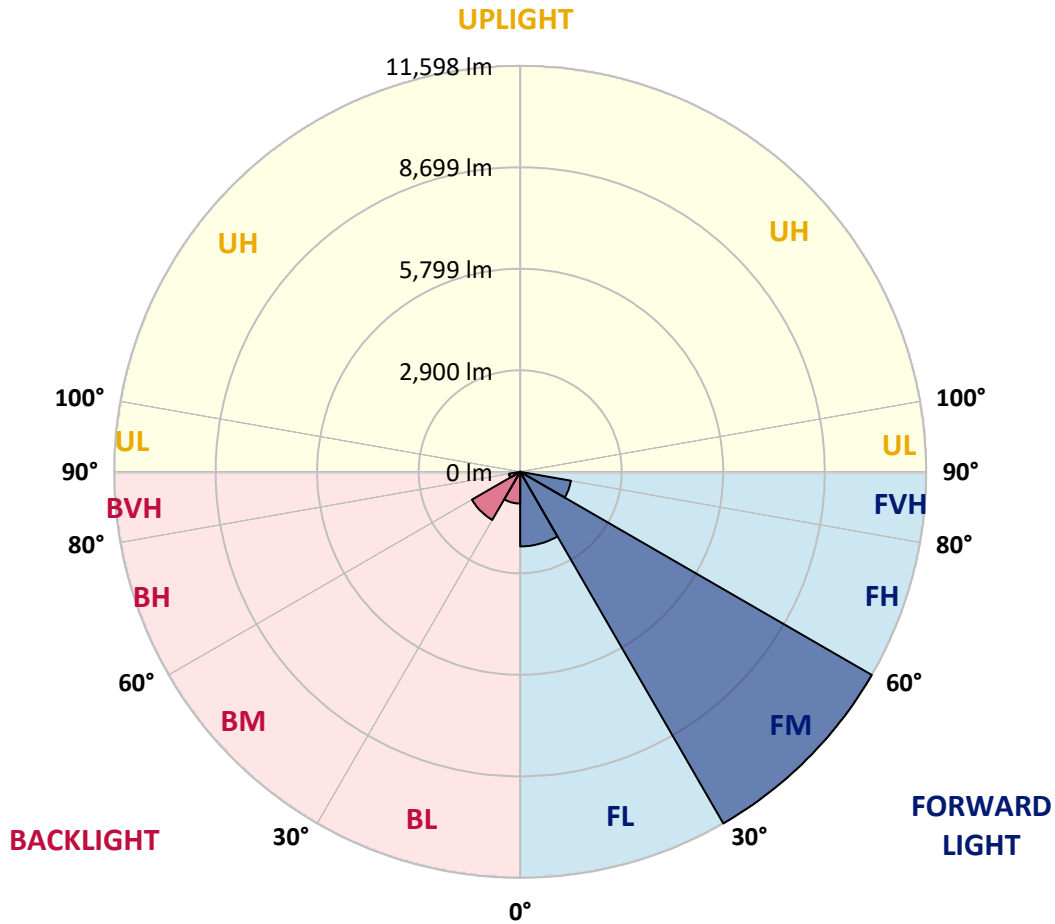


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2131.2	11.8			
FM (30°-60°)	11598.4	64.2			
FH (60°-80°)	1471.4	8.2			G1/1800
FVH (80°-90°)	15.2	0.1			G1/100
BL (0°-30°)	907.2	5.0	B2/1000		
BM (30°-60°)	1589.3	8.8	B2/2500		
BH (60°-80°)	323.5	1.8	B1/500		G1/500
BVH (80°-90°)	15.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3004.8	3004.8	3004.8	3004.8	3004.8	3004.8	3004.8	3004.8	3004.8	3004.8	3004.8
2.5°	3460.7	3380.8	3384.1	3377.5	3367.5	3330.9	3221.1	3204.4	3131.2	3111.3	3044.7
5°	3876.6	3806.7	3846.7	3786.8	3730.2	3696.9	3517.2	3434.0	3317.6	3274.3	3181.1
7.5°	4136.2	4102.9	4089.6	4092.9	4039.7	3956.5	3876.6	3693.6	3537.2	3503.9	3307.6
10°	4262.6	4242.6	4262.6	4252.6	4275.9	4285.9	4146.1	4036.3	3806.7	3750.2	3444.0
12.5°	4292.5	4332.5	4349.1	4392.4	4448.9	4545.4	4535.5	4385.7	4079.6	4043.0	3653.7
15°	4365.8	4399.0	4382.4	4452.3	4558.8	4721.8	4808.3	4785.0	4455.6	4389.0	3896.6
17.5°	4432.3	4372.4	4429.0	4568.7	4675.2	4924.8	5134.4	5230.9	4864.9	4788.4	4119.5
20°	4522.1	4505.5	4495.5	4565.4	4755.1	5087.8	5503.8	5680.1	5324.1	5244.2	4439.0
22.5°	4795.0	4798.3	4791.7	4688.5	4825.0	5201.0	5826.5	6262.5	5873.1	5806.6	4801.7
25°	5154.4	5111.1	5077.8	4994.7	4978.0	5304.1	6152.6	6974.6	6532.0	6485.4	5194.3
27.5°	5533.7	5533.7	5433.9	5357.4	5250.9	5560.3	6452.1	7666.7	7327.3	7264.1	5537.1
30°	5946.3	5969.6	5956.3	5793.3	5726.7	5839.9	6758.3	8551.8	8239.0	8159.2	6102.7
32.5°	6555.3	6505.4	6561.9	6425.5	6229.2	6329.0	7240.8	9343.8	9423.6	9310.5	6844.8
35°	7360.6	7330.6	7294.0	7071.1	6838.1	6918.0	7922.9	10318.7	10911.1	10854.5	7593.5
37.5°	8082.6	8066.0	8036.0	7883.0	7613.4	7709.9	8698.2	11333.7	12361.9	12175.5	8651.6
40°	8841.3	8931.2	8834.7	8698.2	8452.0	8665.0	9610.0	11935.9	13583.1	13356.8	9460.2
42.5°	9869.5	9799.7	9842.9	9593.3	9460.2	9693.2	10525.1	12538.2	14531.4	14261.9	10318.7
45°	10964.3	10967.6	10851.2	10771.3	10425.2	10678.1	11087.4	12871.0	15286.8	15077.2	10967.6
47.5°	11666.4	11663.1	11789.5	11916.0	11559.9	11310.4	11470.1	13187.1	15676.1	15579.6	11203.9
50°	11556.6	11589.9	11752.9	12225.4	12411.8	12075.7	11829.5	13093.9	15852.5	15842.5	11406.9
52.5°	10052.5	10162.4	10435.2	11117.4	12055.7	12471.7	12205.5	13267.0	15939.0	15955.6	11709.7
55°	7653.4	7713.3	8232.4	9060.9	10099.1	11523.3	12055.7	13403.4	16005.5	16035.5	12075.7
56°	6638.5	6478.8	7227.5	7816.4	9057.6	10614.9	11676.4	13296.9	15965.6	16195.2	12258.7
57.5°	5011.3	4904.8	5510.4	6245.8	7440.4	9084.2	10498.4	12794.5	15696.1	15692.8	11995.8
60°	3048.0	2941.6	3407.4	3840.0	4508.8	5593.6	7094.3	10189.0	13270.3	13549.8	9713.1
62.5°	1813.5	1880.1	2339.3	2602.1	2818.4	2931.6	3670.3	6056.2	8854.6	9054.3	6026.2
65°	1207.9	1231.2	1577.3	2009.8	2106.3	1677.1	1494.1	2452.4	3840.0	3716.9	2485.7
67.5°	745.4	798.6	1058.2	1510.7	1673.8	1224.5	708.8	915.1	1058.2	1058.2	718.8
70°	452.5	479.2	705.4	1028.2	1148.0	788.6	515.8	515.8	509.1	499.1	429.3
72.5°	216.3	232.9	359.4	529.1	539.1	415.9	399.3	435.9	425.9	422.6	356.0
75°	93.2	99.8	126.4	166.4	189.7	176.4	242.9	312.8	322.8	312.8	256.2
77.5°	29.9	33.3	46.6	59.9	63.2	76.5	103.2	129.8	149.7	139.8	126.4
80°	3.3	6.7	13.3	29.9	46.6	59.9	76.5	86.5	96.5	96.5	89.8
82.5°	3.3	3.3	13.3	26.6	43.3	56.6	73.2	83.2	96.5	99.8	93.2
85°	0.0	3.3	10.0	23.3	36.6	36.6	33.3	33.3	23.3	23.3	23.3
87.5°	0.0	0.0	3.3	3.3	3.3	6.7	6.7	6.7	6.7	6.7	6.7
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°	3004.8	3004.8	3004.8	3004.8	3004.8	3004.8	3004.8	3004.8	3004.8	3004.8	3004.8
2.5°	3031.4	3024.7	2934.9	2878.3	2848.4	2788.5	2751.9	2725.3	2705.3	2682.0	2685.3
5°	3071.3	3048.0	2898.3	2795.1	2672.0	2605.5	2548.9	2502.3	2472.4	2465.7	2452.4
7.5°	3184.5	3061.4	2835.1	2648.7	2492.3	2425.8	2375.9	2345.9	2359.2	2329.3	2352.6
10°	3271.0	3088.0	2758.5	2489.0	2332.6	2282.7	2256.1	2279.4	2312.7	2299.3	2282.7
12.5°	3377.5	3114.6	2635.4	2335.9	2189.5	2152.9	2199.5	2242.8	2309.3	2335.9	2302.7
15°	3497.3	3144.5	2479.0	2159.6	2066.4	2096.4	2176.2	2252.8	2319.3	2352.6	2372.5
17.5°	3643.7	3134.6	2326.0	2019.8	1949.9	2036.5	2133.0	2202.8	2302.7	2352.6	2339.3
20°	3780.1	3101.3	2156.3	1880.1	1883.4	1963.3	2043.1	2156.3	2209.5	2276.0	2252.8
22.5°	3909.9	3041.4	1979.9	1783.6	1783.6	1906.7	1946.6	2019.8	2066.4	2099.7	2096.4
25°	4092.9	2928.2	1833.5	1690.4	1730.3	1810.2	1843.5	1866.8	1846.8	1873.4	1876.7
27.5°	4222.7	2811.8	1713.7	1607.2	1680.4	1740.3	1730.3	1717.0	1670.4	1633.8	1657.1
30°	4362.4	2675.4	1610.5	1550.6	1590.6	1643.8	1603.9	1564.0	1490.7	1430.8	1434.2
32.5°	4562.1	2612.1	1520.7	1484.1	1537.3	1544.0	1500.7	1440.8	1367.6	1311.1	1307.7
35°	4934.8	2572.2	1444.2	1440.8	1450.8	1454.1	1410.9	1337.7	1307.7	1261.1	1277.8
37.5°	5307.5	2552.2	1390.9	1377.6	1374.3	1377.6	1327.7	1257.8	1314.4	1311.1	1317.7
40°	5783.3	2642.1	1314.4	1297.7	1301.1	1301.1	1237.9	1217.9	1317.7	1327.7	1331.0
42.5°	6265.8	2755.2	1264.5	1211.2	1224.5	1224.5	1191.3	1168.0	1237.9	1171.3	1161.3
45°	6685.1	2921.6	1211.2	1124.7	1158.0	1174.6	1164.6	1124.7	1081.5	968.3	968.3
47.5°	6821.5	3068.0	1148.0	1041.5	1068.1	1141.4	1111.4	1028.2	951.7	858.5	851.9
50°	7061.1	3227.7	1098.1	945.0	1001.6	1091.4	1061.5	978.3	891.8	825.2	828.6
52.5°	7307.3	3410.7	1004.9	831.9	901.8	1051.5	1051.5	958.3	825.2	778.6	772.0
55°	7676.7	3404.1	838.5	682.1	805.3	991.6	1008.2	858.5	738.7	702.1	702.1
56°	7729.9	3251.0	755.4	638.9	762.0	975.0	978.3	831.9	705.4	665.5	665.5
57.5°	7330.6	2934.9	662.2	585.6	708.8	945.0	948.4	808.6	678.8	622.3	615.6
60°	5640.2	1986.6	552.4	522.4	642.2	851.9	868.5	735.4	595.6	552.4	549.0
62.5°	3184.5	1101.4	485.8	472.5	552.4	725.4	775.3	642.2	505.8	482.5	489.2
65°	1454.1	605.6	409.3	382.7	445.9	559.0	625.6	529.1	415.9	389.3	389.3
67.5°	532.4	412.6	349.4	302.8	312.8	362.7	406.0	342.7	276.2	236.3	246.2
70°	379.3	346.1	306.1	262.9	242.9	236.3	232.9	193.0	136.4	106.5	113.1
72.5°	306.1	286.2	256.2	222.9	189.7	159.7	136.4	99.8	63.2	43.3	39.9
75°	219.6	209.6	186.3	159.7	133.1	113.1	93.2	63.2	33.3	16.6	16.6
77.5°	113.1	113.1	109.8	99.8	83.2	66.6	53.2	36.6	20.0	6.7	6.7
80°	86.5	93.2	96.5	86.5	76.5	59.9	43.3	26.6	13.3	3.3	3.3
82.5°	83.2	96.5	103.2	89.8	76.5	56.6	43.3	26.6	13.3	3.3	3.3
85°	20.0	20.0	29.9	33.3	43.3	46.6	36.6	23.3	10.0	3.3	3.3
87.5°	6.7	6.7	6.7	6.7	6.7	6.7	3.3	3.3	3.3	3.3	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)