

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: P528232

Luminaire Tested: **GALN-SA3B-740-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-740-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14398 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

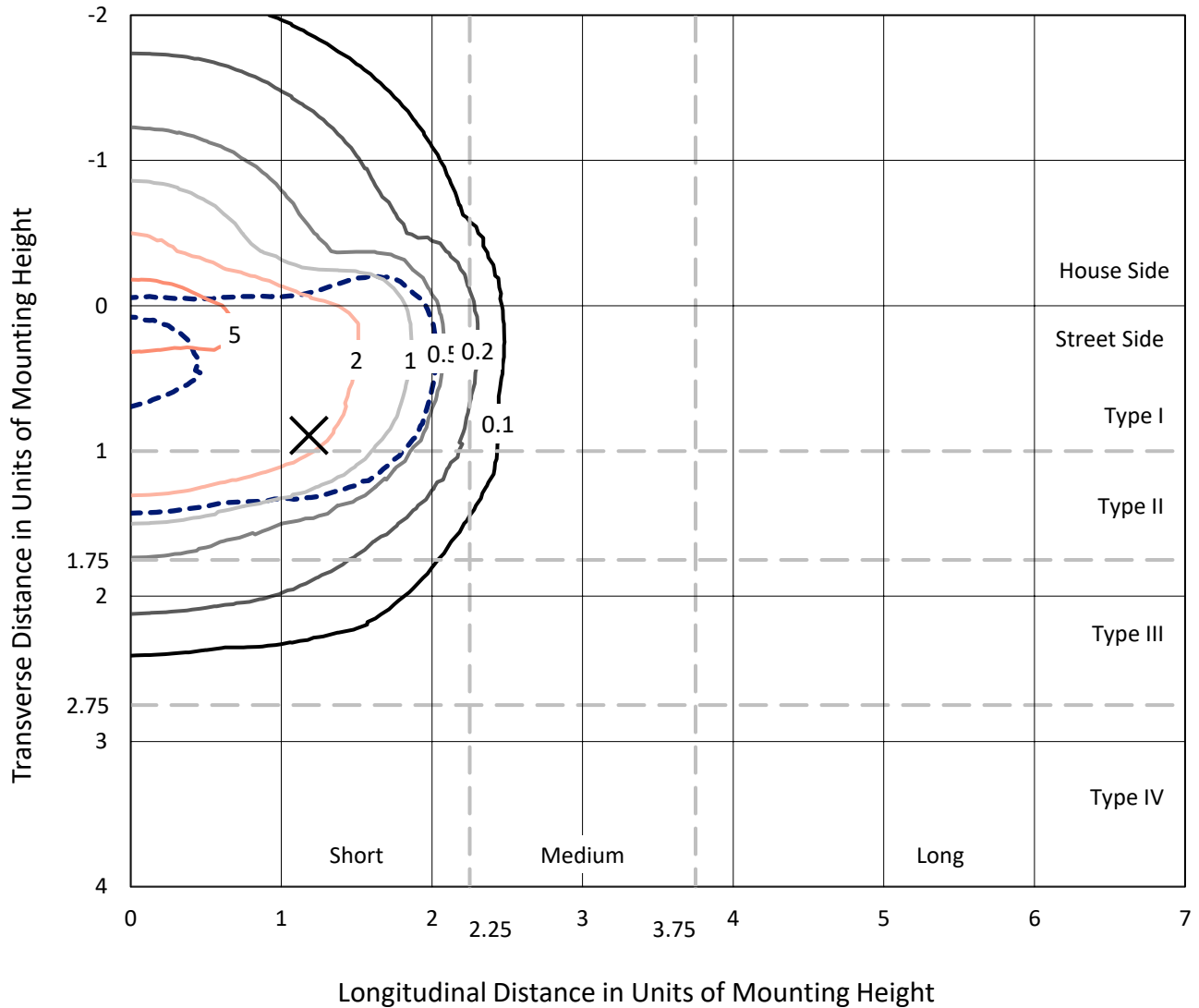
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

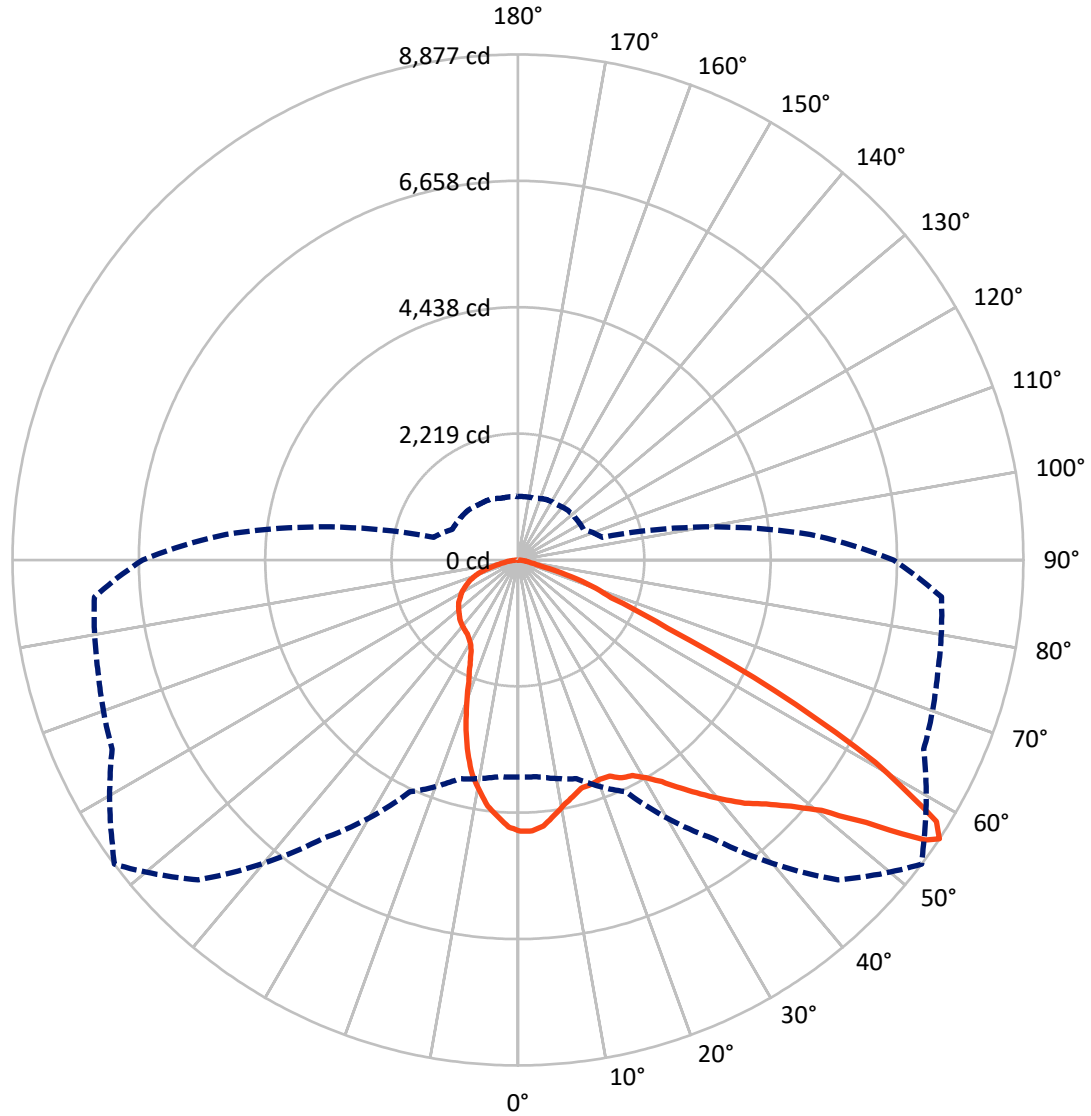
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4201.7	0.0	4201.7
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	10196.3	0.0	10196.3
	% Fixture	70.8	0.0	70.8
Total	Lumens	14398.0	0.0	14398.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.7	2.9
10°-20°	1053.2	7.3
20°-30°	1553.1	10.8
30°-40°	2219.0	15.4
40°-50°	3054.2	21.2
50°-60°	3609.2	25.1
60°-70°	1923.5	13.4
70°-80°	488.0	3.4
80°-90°	76.1	0.5
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°	14398.0	100.0
0°-180°	14398.0	100.0

Coefficient of Utilization

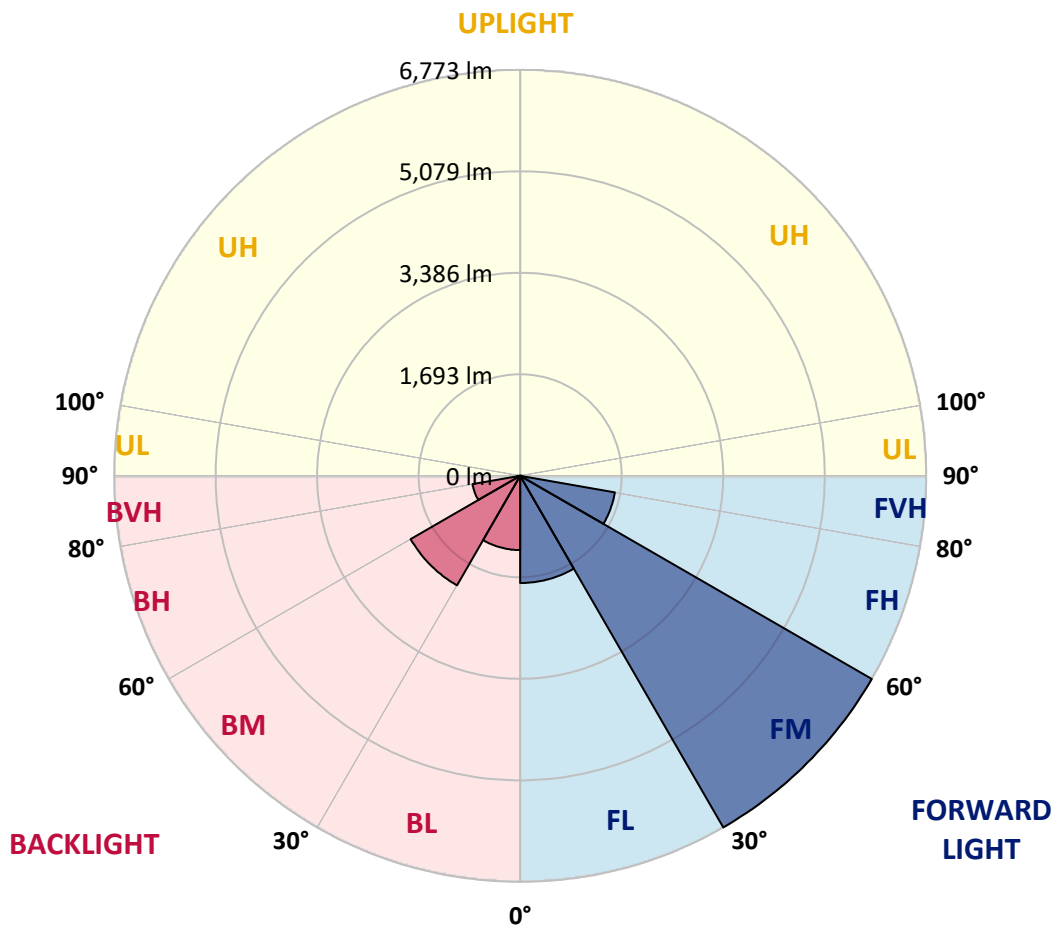


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1788.7	12.4			
FM (30°-60°)	6772.5	47.0			
FH (60°-80°)	1604.5	11.1			G1/1800
FVH (80°-90°)	30.6	0.2			G1/100
BL (0°-30°)	1239.2	8.6	B3/2500		
BM (30°-60°)	2109.9	14.7	B2/2500		
BH (60°-80°)	807.0	5.6	B2/1000		G2/1000
BVH (80°-90°)	45.5	0.3			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°	53°	55°	65°	75°	85°
0°	4763.4	4763.4	4763.4	4763.4	4763.4	4763.4	4763.4	4763.4	4763.4	4763.4	4763.4
2.5°	4704.3	4663.7	4687.7	4678.5	4754.2	4776.4	4765.3	4774.5	4817.0	4796.7	4754.2
5°	4395.9	4453.1	4464.2	4491.9	4536.2	4623.1	4691.4	4709.9	4730.2	4824.4	4815.1
7.5°	4115.1	4153.9	4133.6	4214.9	4310.9	4451.3	4534.4	4549.2	4735.7	4787.4	4826.2
10°	3937.8	3899.0	3991.4	4013.5	4122.5	4283.2	4382.9	4443.9	4613.8	4818.8	4842.8
12.5°	3773.4	3760.5	3815.9	3878.7	4000.6	4166.8	4268.4	4292.4	4554.7	4770.8	4883.5
15°	3651.5	3636.8	3692.2	3738.3	3880.6	4028.3	4157.6	4225.9	4490.1	4743.1	4848.4
17.5°	3555.5	3553.6	3585.0	3668.2	3814.1	3937.8	4146.5	4150.2	4456.8	4785.6	4877.9
20°	3549.9	3548.1	3553.6	3646.0	3779.0	3930.4	4111.4	4144.7	4456.8	4756.0	4879.8
22.5°	3596.1	3566.6	3599.8	3658.9	3755.0	3943.4	4124.4	4198.2	4563.9	4902.0	4962.9
25°	3670.0	3677.4	3695.9	3716.2	3771.6	3972.9	4238.9	4299.8	4689.5	5027.5	5077.4
27.5°	3804.8	3801.1	3808.5	3819.6	3867.6	4000.6	4285.1	4442.0	4951.8	5251.0	5201.2
30°	4002.5	3989.5	4019.1	4057.9	4013.5	4089.3	4438.4	4556.6	5195.6	5476.4	5339.7
32.5°	4181.6	4229.6	4285.1	4301.7	4248.1	4262.9	4641.5	4761.6	5398.8	5753.4	5509.6
35°	4405.1	4443.9	4517.8	4569.5	4560.3	4515.9	4918.6	5077.4	5692.5	5956.6	5688.8
37.5°	4623.1	4669.2	4791.1	4944.4	4859.5	4839.2	5214.1	5345.2	5783.0	6065.6	5819.9
40°	4974.0	4972.1	5182.7	5262.1	5337.8	5302.8	5520.7	5565.0	5831.0	6041.6	5823.6
42.5°	5385.9	5360.0	5574.3	5698.0	5795.9	5799.6	5840.2	5825.5	5853.2	5919.7	5784.8
45°	5777.4	5832.8	6048.9	6270.6	6368.5	6379.6	6109.9	6082.2	5891.9	5884.6	5710.9
47.5°	6255.8	6268.7	6446.0	6737.9	6965.1	6887.5	6459.0	6398.0	6061.9	6119.1	5834.7
50°	6283.5	6379.6	6538.4	6881.9	7580.1	7559.8	6911.5	6797.0	6335.2	6451.6	6180.1
52.5°	5703.6	5681.4	5869.8	6431.3	7533.9	8228.4	7661.4	7388.0	6922.6	6833.9	6739.7
55°	4346.0	4397.7	4563.9	5131.0	6542.1	8237.6	8682.8	8459.3	7550.6	7399.1	7290.1
56°	3812.2	3819.6	3976.6	4493.8	5969.5	7944.0	8876.7	8695.7	7862.7	7631.8	7465.6
57.5°	3160.2	3117.7	3199.0	3481.6	5038.6	7323.4	8664.3	8841.6	8228.4	7883.0	7652.1
60°	2487.9	2478.7	2445.4	2497.2	3184.2	5517.0	7212.6	7611.5	8191.5	7646.6	7328.9
62.5°	2031.7	1985.5	2052.0	2125.9	2212.7	3422.5	5068.2	5302.8	6503.3	6104.4	5505.9
65°	1575.5	1553.3	1636.4	1876.6	1928.3	2173.9	2886.9	3067.9	3839.9	3771.6	3320.9
67.5°	1084.2	1087.9	1159.9	1525.6	1787.9	1765.7	1767.6	1861.8	2004.0	1488.7	1296.6
70°	687.1	685.2	724.0	982.6	1438.8	1453.6	1379.7	1352.0	1281.8	775.7	821.9
72.5°	441.4	428.5	448.8	543.0	744.3	860.7	886.6	903.2	742.5	609.5	661.2
75°	249.3	236.4	229.0	253.0	293.7	339.8	373.1	384.2	430.4	461.8	489.5
77.5°	75.7	68.3	83.1	110.8	145.9	195.8	238.3	245.7	290.0	326.9	354.6
80°	33.2	36.9	51.7	73.9	103.4	138.5	168.1	179.2	208.7	236.4	243.8
82.5°	20.3	22.2	35.1	49.9	72.0	97.9	120.1	123.7	153.3	175.5	181.0
85°	7.4	9.2	18.5	29.6	46.2	62.8	62.8	68.3	62.8	62.8	68.3
87.5°	0.0	0.0	1.8	3.7	3.7	5.5	7.4	7.4	9.2	11.1	12.9
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°	4763.4	4763.4	4763.4	4763.4	4763.4	4763.4	4763.4	4763.4	4763.4	4763.4	4763.4
2.5°	4776.4	4767.1	4752.3	4698.8	4693.2	4676.6	4584.3	4569.5	4584.3	4539.9	4543.6
5°	4767.1	4794.8	4684.0	4630.4	4530.7	4458.7	4375.6	4333.1	4257.3	4209.3	4262.9
7.5°	4807.8	4796.7	4658.1	4541.8	4392.2	4209.3	4063.4	3980.3	3847.3	3810.4	3838.1
10°	4793.0	4733.9	4571.3	4418.0	4135.4	3974.8	3738.3	3509.3	3383.7	3319.1	3309.8
12.5°	4772.7	4756.0	4484.5	4220.4	3923.0	3585.0	3252.6	3036.5	2831.5	2742.8	2755.7
15°	4796.7	4656.3	4322.0	3987.7	3592.4	3149.1	2790.8	2511.9	2369.7	2312.5	2312.5
17.5°	4785.6	4608.3	4244.4	3727.3	3226.7	2702.2	2308.8	2140.7	2081.6	2081.6	2098.2
20°	4791.1	4639.7	4087.4	3466.8	2794.5	2275.5	1989.2	1928.3	1954.1	1963.4	1972.6
22.5°	4822.5	4536.2	3934.1	3180.5	2393.7	1946.7	1806.4	1808.2	1854.4	1904.3	1895.0
25°	4861.3	4495.6	3747.6	2896.1	2087.1	1786.1	1741.7	1736.2	1771.3	1797.1	1800.8
27.5°	4828.1	4425.4	3557.3	2541.5	1835.9	1678.9	1669.7	1673.4	1684.5	1736.2	1719.6
30°	4937.0	4445.7	3319.1	2244.1	1697.4	1643.8	1632.8	1627.2	1643.8	1658.6	1645.7
32.5°	5071.9	4373.7	3141.8	1957.8	1629.1	1618.0	1595.8	1588.4	1597.7	1582.9	1590.3
35°	5131.0	4360.8	2910.9	1752.8	1575.5	1566.3	1553.3	1551.5	1553.3	1540.4	1529.3
37.5°	5164.2	4421.7	2646.8	1658.6	1542.2	1551.5	1521.9	1518.2	1485.0	1492.4	1497.9
40°	5221.5	4327.5	2432.5	1568.1	1521.9	1503.5	1477.6	1472.1	1449.9	1437.0	1449.9
42.5°	5138.4	4299.8	2221.9	1529.3	1492.4	1472.1	1453.6	1422.2	1414.8	1403.7	1396.3
45°	5071.9	4141.0	2033.6	1481.3	1457.3	1446.2	1411.1	1377.9	1350.2	1361.2	1344.6
47.5°	5121.7	4085.6	1847.0	1440.7	1409.3	1396.3	1361.2	1335.4	1307.7	1294.8	1291.1
50°	5321.2	4189.0	1690.0	1411.1	1368.6	1361.2	1315.1	1285.5	1259.7	1250.4	1254.1
52.5°	5797.7	4471.6	1582.9	1350.2	1329.8	1296.6	1270.7	1233.8	1217.2	1187.6	1206.1
55°	6401.7	4931.5	1555.2	1292.9	1281.8	1252.3	1217.2	1189.5	1158.1	1134.1	1128.5
56°	6595.7	5151.3	1533.0	1270.7	1252.3	1235.6	1189.5	1172.8	1123.0	1117.4	1113.7
57.5°	6752.7	5345.2	1536.7	1228.3	1209.8	1195.0	1167.3	1126.7	1093.4	1073.1	1082.3
60°	6398.0	5003.5	1466.5	1163.6	1159.9	1132.2	1093.4	1075.0	1034.3	1010.3	1004.8
62.5°	4756.0	3396.6	1189.5	1080.5	1078.7	1049.1	1004.8	984.5	977.1	943.8	943.8
65°	2739.1	2129.6	1028.8	1012.2	997.4	967.8	923.5	906.9	888.4	877.3	868.1
67.5°	1169.2	1104.5	934.6	932.7	916.1	879.2	834.8	809.0	785.0	762.8	773.9
70°	847.8	860.7	844.1	834.8	814.5	768.4	729.6	698.2	661.2	646.5	657.5
72.5°	672.3	700.0	724.0	725.9	701.9	648.3	605.8	563.3	522.7	502.4	511.6
75°	509.8	528.2	552.3	557.8	522.7	485.8	445.1	400.8	369.4	345.4	349.1
77.5°	367.6	363.9	386.0	382.3	365.7	339.8	302.9	262.3	227.2	205.0	206.9
80°	251.2	256.7	269.7	267.8	247.5	230.9	203.2	169.9	144.1	125.6	121.9
82.5°	175.5	184.7	195.8	186.5	169.9	153.3	133.0	109.0	88.7	73.9	70.2
85°	62.8	72.0	83.1	88.7	94.2	90.5	75.7	61.0	44.3	36.9	35.1
87.5°	12.9	14.8	16.6	16.6	16.6	14.8	12.9	12.9	11.1	5.5	5.5
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)