

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: P528910

Luminaire Tested: **GALN-SA4A-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528910
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-735-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14258 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

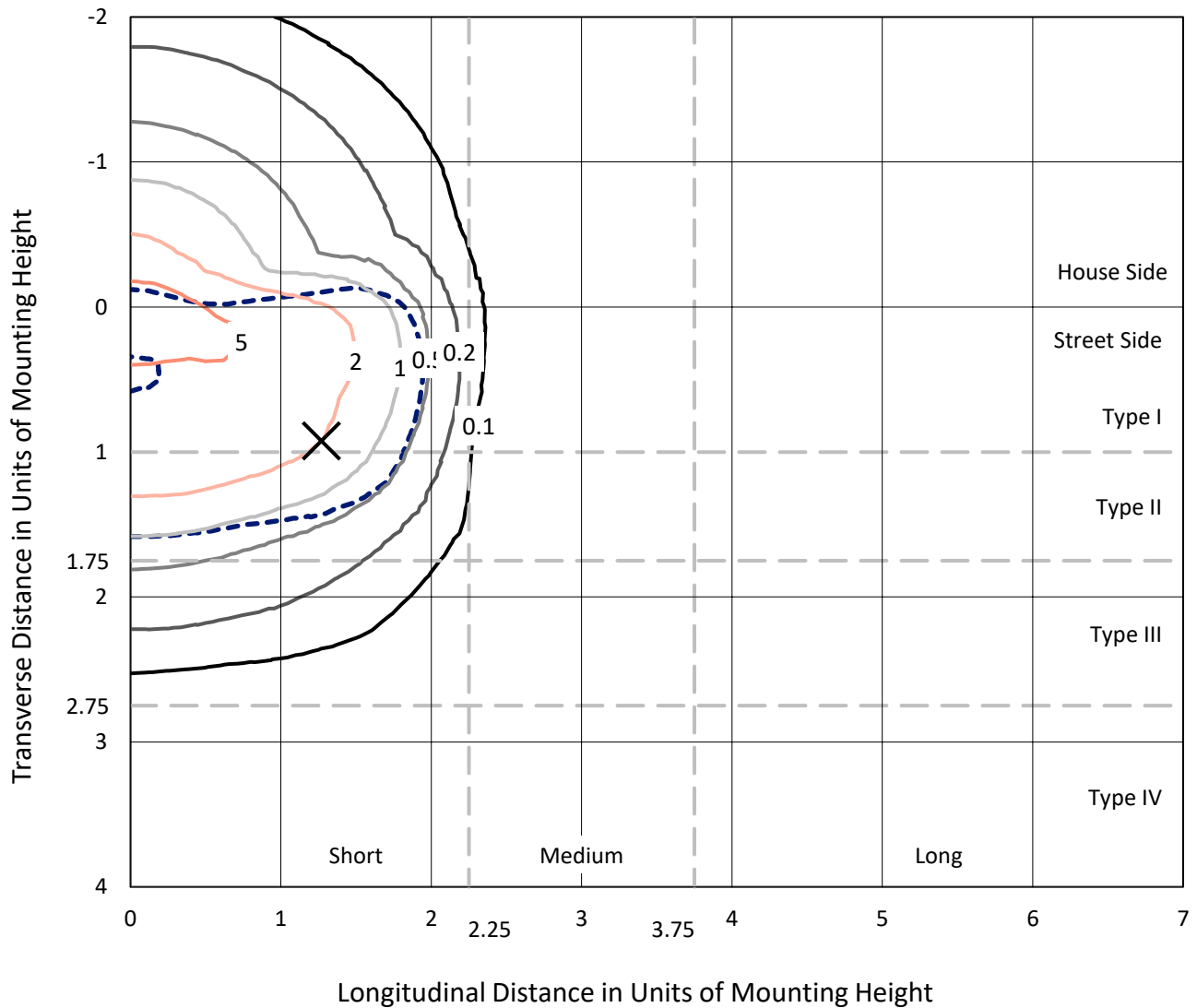
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

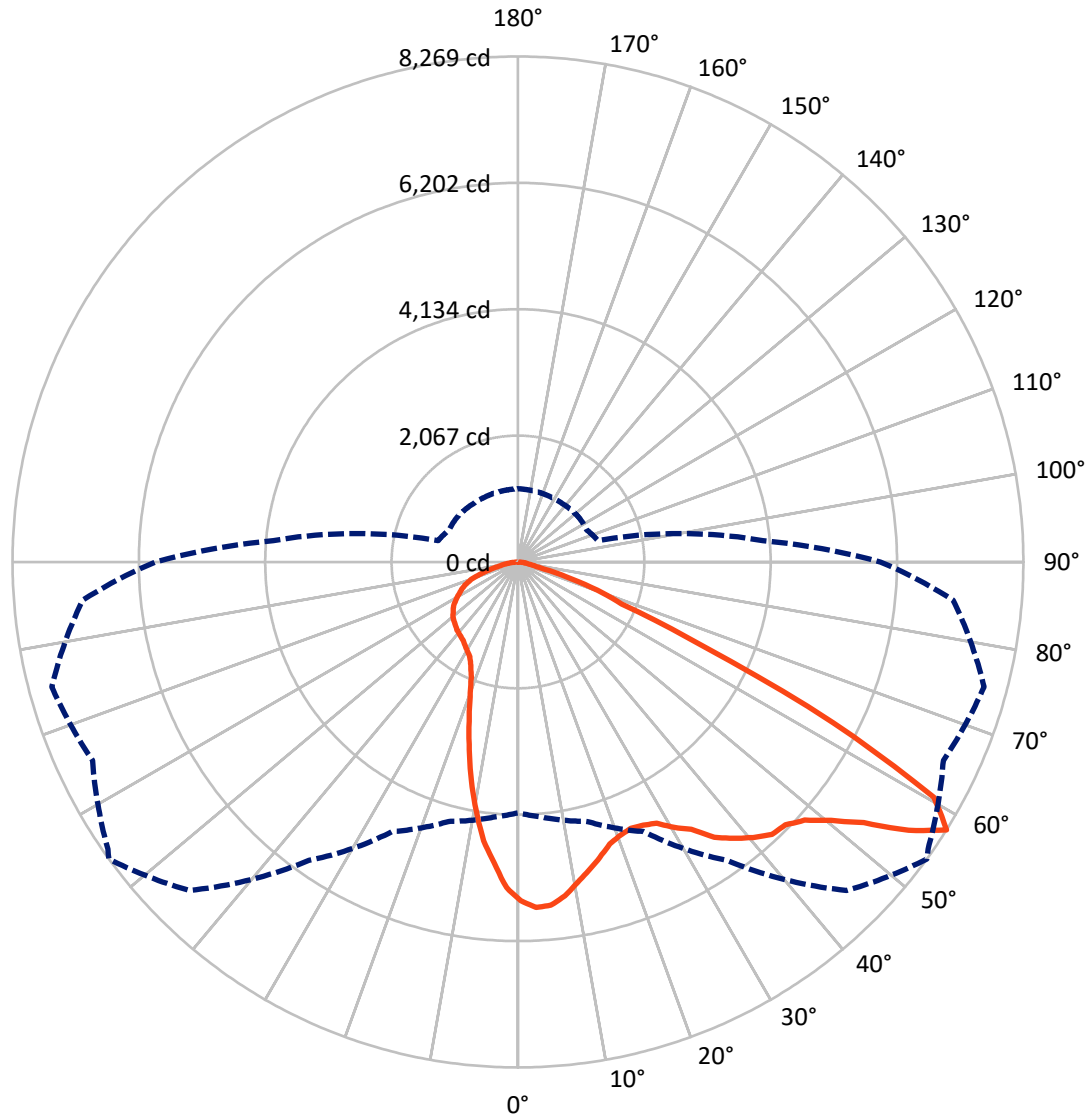
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3944.6	0.0	3944.6
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	10313.4	0.0	10313.4
	% Fixture	72.3	0.0	72.3
Total	Lumens	14258.0	0.0	14258.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.9	3.4
10°-20°	1106.6	7.8
20°-30°	1554.8	10.9
30°-40°	2173.6	15.2
40°-50°	2942.6	20.6
50°-60°	3584.3	25.1
60°-70°	1866.8	13.1
70°-80°	478.4	3.4
80°-90°	73.0	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°	14258.0	100.0
0°-180°	14258.0	100.0

Coefficient of Utilization

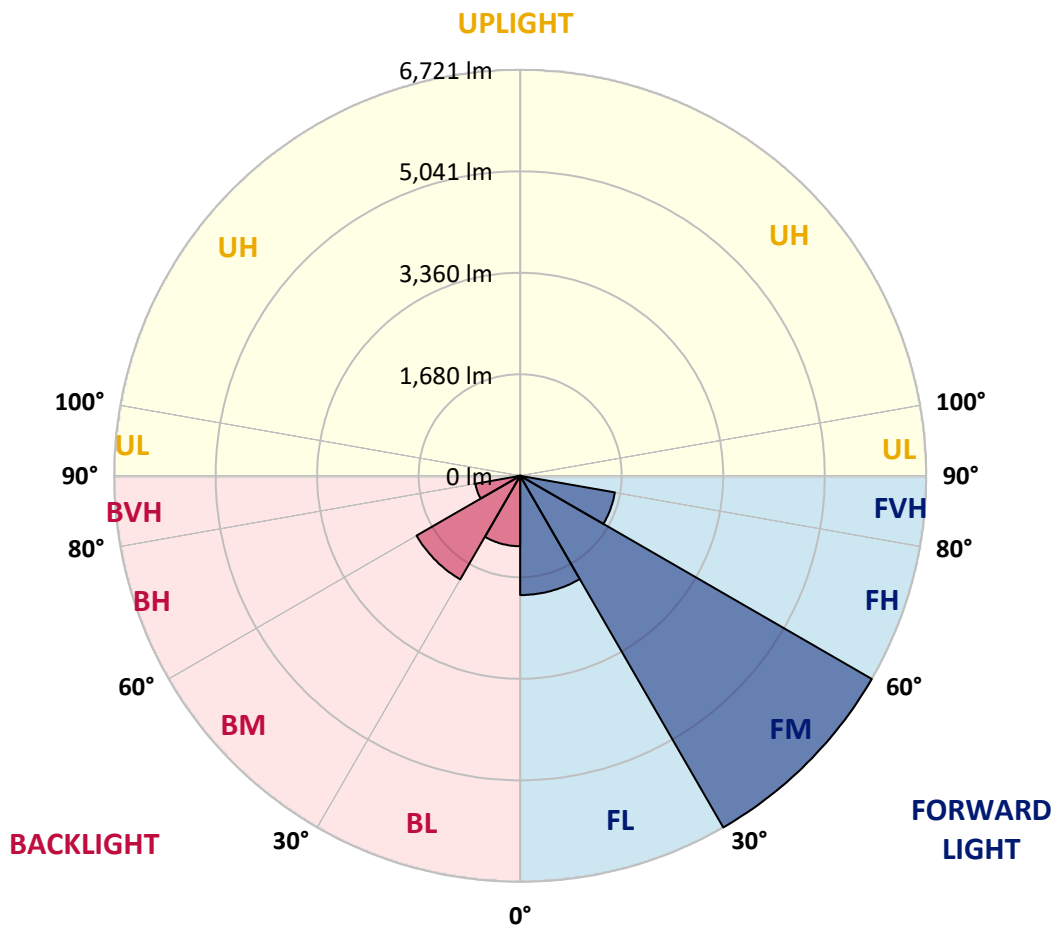


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1973.5	13.8			
FM (30°-60°)	6720.8	47.1			
FH (60°-80°)	1591.6	11.2			G1/1800
FVH (80°-90°)	27.6	0.2			G1/100
BL (0°-30°)	1165.8	8.2	B3/2500		
BM (30°-60°)	1979.7	13.9	B2/2500		
BH (60°-80°)	753.6	5.3	B2/1000		G2/1000
BVH (80°-90°)	45.4	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°	54°	55°	65°	75°	85°
0°	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9
2.5°	5699.5	5677.5	5681.2	5710.5	5673.9	5659.2	5659.2	5587.7	5593.2	5543.8	5530.9
5°	5567.6	5516.3	5551.1	5595.1	5602.4	5617.1	5640.9	5622.6	5571.2	5518.1	5432.0
7.5°	5223.0	5268.9	5281.7	5312.8	5378.8	5439.3	5514.4	5463.1	5461.3	5408.1	5356.8
10°	4920.7	4893.2	4962.8	5008.6	5118.6	5219.4	5334.8	5329.3	5356.8	5296.3	5208.4
12.5°	4620.1	4598.1	4631.1	4735.6	4889.5	5036.1	5173.6	5122.2	5268.9	5257.9	5069.1
15°	4301.2	4317.7	4365.4	4462.5	4664.1	4840.0	5014.1	5016.0	5146.1	5190.1	4937.1
17.5°	4077.6	4059.3	4119.8	4264.6	4444.2	4654.9	4852.8	4893.2	5092.9	5118.6	4896.8
20°	3910.9	3936.5	4015.3	4088.6	4295.7	4550.5	4774.0	4788.7	5081.9	5151.6	4832.7
22.5°	3870.5	3855.9	3881.5	4000.7	4171.1	4447.8	4731.9	4786.9	5080.1	5140.6	4711.7
25°	3828.4	3876.0	3874.2	3993.3	4118.0	4365.4	4766.7	4827.2	5177.2	5197.4	4728.2
27.5°	3923.7	3918.2	3969.5	3978.7	4132.6	4387.4	4840.0	4885.8	5338.5	5322.0	4741.1
30°	4019.0	3991.5	4022.7	4130.8	4202.3	4513.8	5041.6	5037.9	5547.4	5536.4	4781.4
32.5°	4136.3	4123.5	4143.6	4238.9	4359.9	4682.4	5212.0	5320.2	5760.0	5829.6	4920.7
35°	4158.3	4211.4	4259.1	4387.4	4559.6	4955.5	5532.8	5622.6	6005.6	6223.7	5186.4
37.5°	4297.6	4317.7	4429.5	4656.8	4814.4	5320.2	5736.2	5793.0	6229.2	6476.6	5466.8
40°	4446.0	4469.8	4638.4	4876.7	5092.9	5558.4	5926.8	5945.1	6300.6	6670.8	5650.0
42.5°	4647.6	4669.6	4836.4	5135.1	5424.6	5761.8	6095.4	6115.5	6295.1	6894.4	5941.4
45°	4856.5	4909.7	5105.8	5444.8	5705.0	6000.1	6133.9	6216.3	6346.5	7094.2	6177.8
47.5°	5149.7	5199.2	5360.5	5692.2	5996.4	6209.0	6311.6	6392.3	6469.2	7268.3	6330.0
50°	5461.3	5470.4	5666.5	5967.1	6190.7	6445.4	6643.3	6670.8	6630.5	7469.9	6588.4
52.5°	5690.4	5719.7	5871.8	6165.0	6498.6	6811.9	7083.2	7112.5	7033.7	7545.0	6676.3
55°	5311.0	5294.5	5541.9	5932.3	6705.7	7358.1	7752.1	7774.1	7326.9	7777.7	6964.1
57.5°	4105.1	4183.9	4394.7	4865.7	5957.9	7600.0	8268.9	8190.1	7678.8	7895.0	7147.3
60°	2983.5	2965.2	3106.3	3421.5	4490.0	6549.9	7818.1	7898.7	7391.1	7116.2	5893.8
62.5°	2430.1	2404.4	2415.4	2426.4	2897.4	4347.0	5787.5	5785.7	5692.2	5114.9	3975.0
65°	1942.6	2003.1	2008.6	2091.0	2151.5	2596.9	3353.7	3533.3	3077.0	2523.6	1830.8
67.5°	1464.3	1442.3	1515.6	1808.8	1922.4	1874.8	1830.8	1851.0	1315.8	949.3	894.3
70°	863.2	854.0	942.0	1260.9	1583.4	1489.9	1380.0	1381.8	903.5	663.4	738.6
72.5°	472.8	471.0	489.3	639.6	899.8	934.6	828.4	854.0	538.8	537.0	577.3
75°	263.9	258.4	252.9	282.2	324.4	342.7	350.0	353.7	370.2	414.2	430.7
77.5°	97.1	93.5	93.5	108.1	137.4	172.3	218.1	221.8	262.1	300.6	317.0
80°	33.0	36.7	49.5	67.8	91.6	122.8	148.4	152.1	185.1	210.8	216.3
82.5°	20.2	22.0	33.0	47.6	66.0	86.1	110.0	111.8	137.4	153.9	161.3
85°	9.2	11.0	18.3	29.3	42.2	56.8	58.6	58.6	56.8	58.6	55.0
87.5°	0.0	0.0	3.7	3.7	3.7	5.5	7.3	5.5	9.2	11.0	11.0
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°	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9
2.5°	5492.4	5472.3	5410.0	5355.0	5338.5	5265.2	5157.1	5169.9	5091.1	5127.7	5089.3
5°	5417.3	5349.5	5190.1	5122.2	4944.5	4863.8	4808.9	4671.4	4607.3	4594.4	4539.5
7.5°	5224.9	5182.7	4983.0	4799.7	4610.9	4449.7	4242.6	4101.5	4000.7	3973.2	3892.5
10°	5072.8	4979.3	4702.6	4424.0	4154.6	3874.2	3604.8	3394.1	3291.4	3172.3	3132.0
12.5°	4922.5	4781.4	4407.5	4050.1	3701.9	3348.2	3022.0	2765.5	2541.9	2488.7	2470.4
15°	4829.0	4583.4	4143.6	3712.9	3218.1	2756.3	2430.1	2261.5	2124.0	2067.2	2107.5
17.5°	4706.2	4420.3	3890.7	3317.1	2772.8	2347.6	2074.6	1970.1	1920.6	1926.1	1909.6
20°	4552.3	4266.4	3559.0	2957.9	2375.1	2036.1	1880.3	1841.8	1849.1	1862.0	1856.5
22.5°	4442.3	4079.5	3318.9	2591.4	2052.6	1863.8	1799.7	1772.2	1796.0	1807.0	1797.8
25°	4358.0	3920.0	3027.5	2267.0	1865.6	1766.7	1737.3	1735.5	1772.2	1786.8	1777.7
27.5°	4281.1	3771.6	2738.0	2019.6	1741.0	1691.5	1682.4	1704.4	1728.2	1742.8	1755.7
30°	4235.2	3658.0	2466.7	1812.5	1678.7	1654.9	1638.4	1658.5	1671.4	1686.0	1678.7
32.5°	4279.2	3577.3	2204.7	1695.2	1627.4	1603.6	1625.6	1612.7	1634.7	1647.5	1627.4
35°	4416.7	3505.9	2017.7	1632.9	1568.7	1577.9	1581.6	1576.1	1585.2	1574.2	1598.1
37.5°	4552.3	3480.2	1845.5	1579.7	1541.3	1541.3	1537.6	1526.6	1544.9	1541.3	1552.3
40°	4724.6	3496.7	1698.9	1522.9	1515.6	1511.9	1497.3	1495.4	1488.1	1489.9	1493.6
42.5°	4874.8	3533.3	1614.6	1486.3	1491.8	1499.1	1471.6	1449.6	1458.8	1440.5	1440.5
45°	5034.3	3566.3	1539.4	1460.6	1455.1	1453.3	1431.3	1418.5	1411.1	1413.0	1429.5
47.5°	5285.4	3614.0	1482.6	1425.8	1429.5	1402.0	1396.5	1380.0	1387.3	1398.3	1400.1
50°	5463.1	3714.8	1438.6	1385.5	1398.3	1380.0	1347.0	1339.7	1339.7	1358.0	1354.3
52.5°	5587.7	3855.9	1396.5	1341.5	1347.0	1332.3	1321.3	1304.8	1293.8	1319.5	1332.3
55°	5968.9	4090.5	1385.5	1304.8	1303.0	1288.4	1268.2	1251.7	1246.2	1249.9	1275.5
57.5°	5932.3	4017.2	1350.7	1240.7	1237.0	1216.9	1196.7	1191.2	1189.4	1193.1	1200.4
60°	4816.2	2967.1	1205.9	1167.4	1161.9	1158.2	1138.1	1116.1	1105.1	1116.1	1106.9
62.5°	3187.0	1986.6	1062.9	1079.4	1083.1	1073.9	1040.9	1019.0	1022.6	1035.4	1015.3
65°	1565.1	1167.4	964.0	1008.0	1011.6	986.0	954.8	929.2	916.3	927.3	918.2
67.5°	894.3	892.5	883.3	929.2	927.3	901.7	852.2	830.2	808.2	811.9	806.4
70°	758.7	773.4	791.7	819.2	817.4	788.0	729.4	712.9	681.7	678.1	668.9
72.5°	597.4	623.1	663.4	683.6	667.1	630.4	591.9	564.5	537.0	520.5	526.0
75°	443.5	480.2	502.1	515.0	489.3	469.2	438.0	405.0	372.0	357.4	351.9
77.5°	322.5	333.5	353.7	362.9	346.4	326.2	307.9	274.9	243.7	223.6	218.1
80°	225.4	232.7	247.4	247.4	247.4	238.2	214.4	181.4	161.3	142.9	139.3
82.5°	157.6	164.9	179.6	172.3	170.4	159.4	144.8	119.1	97.1	84.3	80.6
85°	55.0	60.5	73.3	88.0	93.5	91.6	82.5	66.0	51.3	42.2	38.5
87.5°	12.8	12.8	14.7	12.8	12.8	14.7	12.8	12.8	12.8	9.2	7.3
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)