

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: P529950

Luminaire Tested: **GALN-SA5A-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529950
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-SA5A-827-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 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: 14243 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

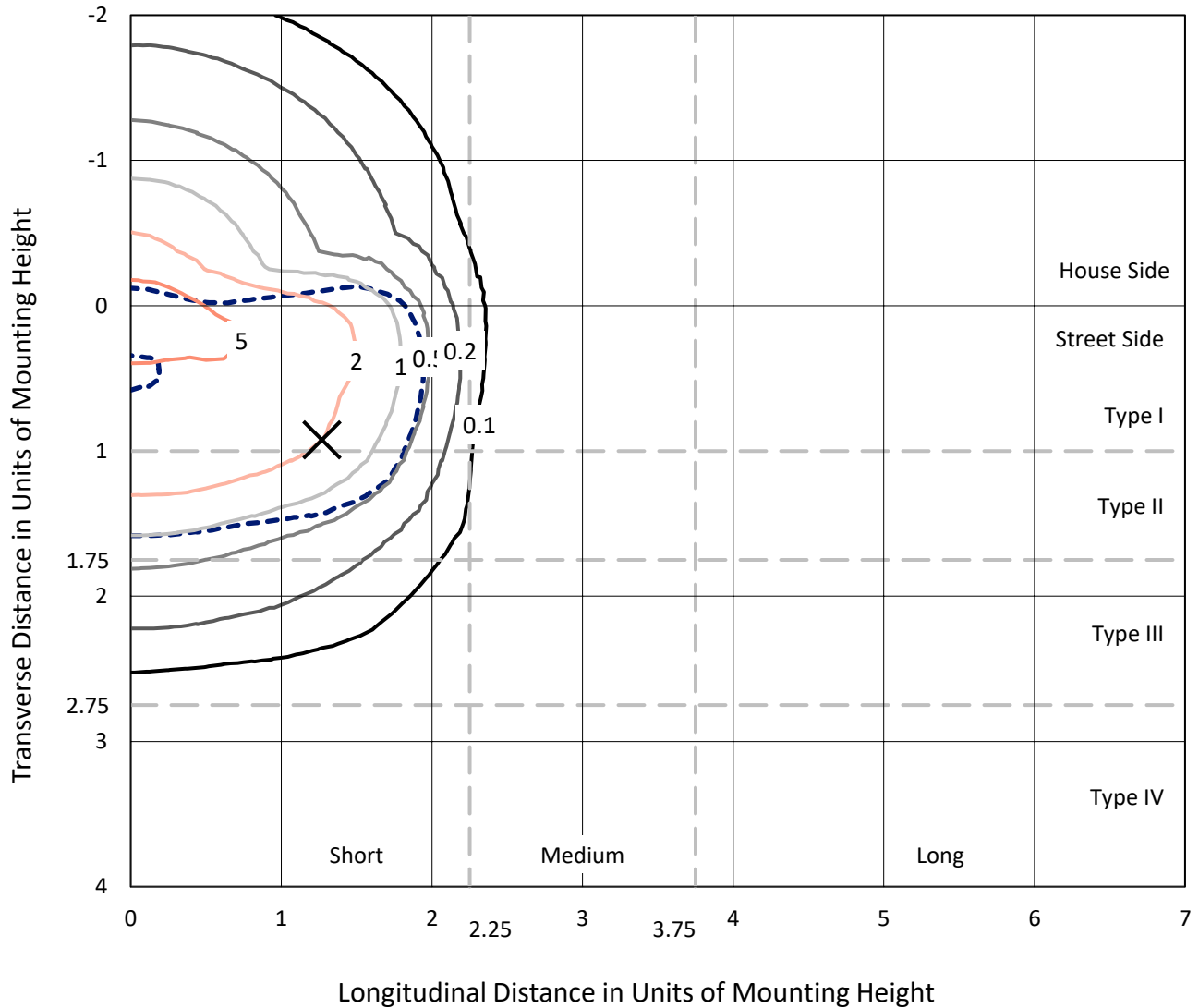
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

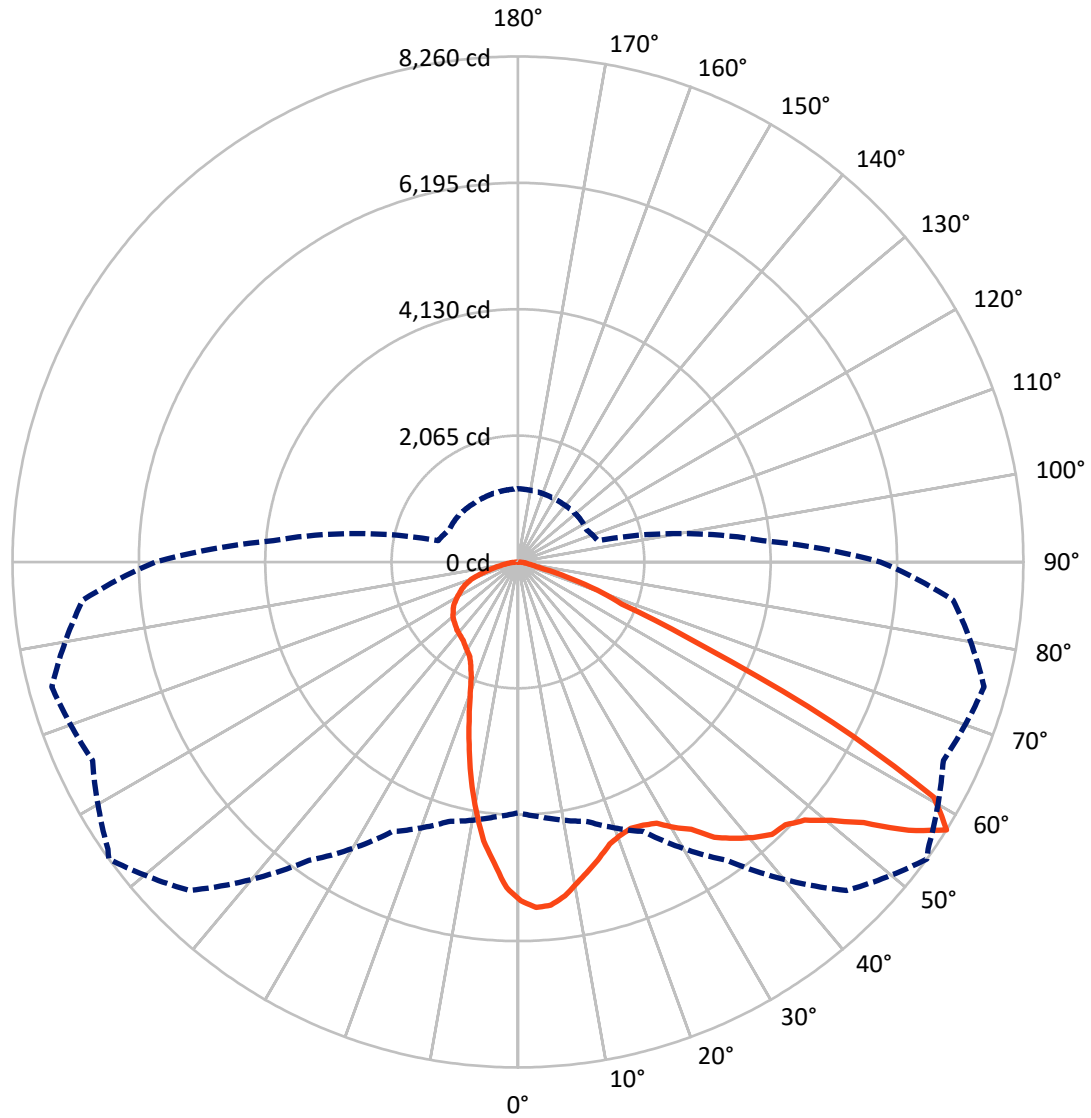
✕ Max cd
 - - - 1/2 Max cd



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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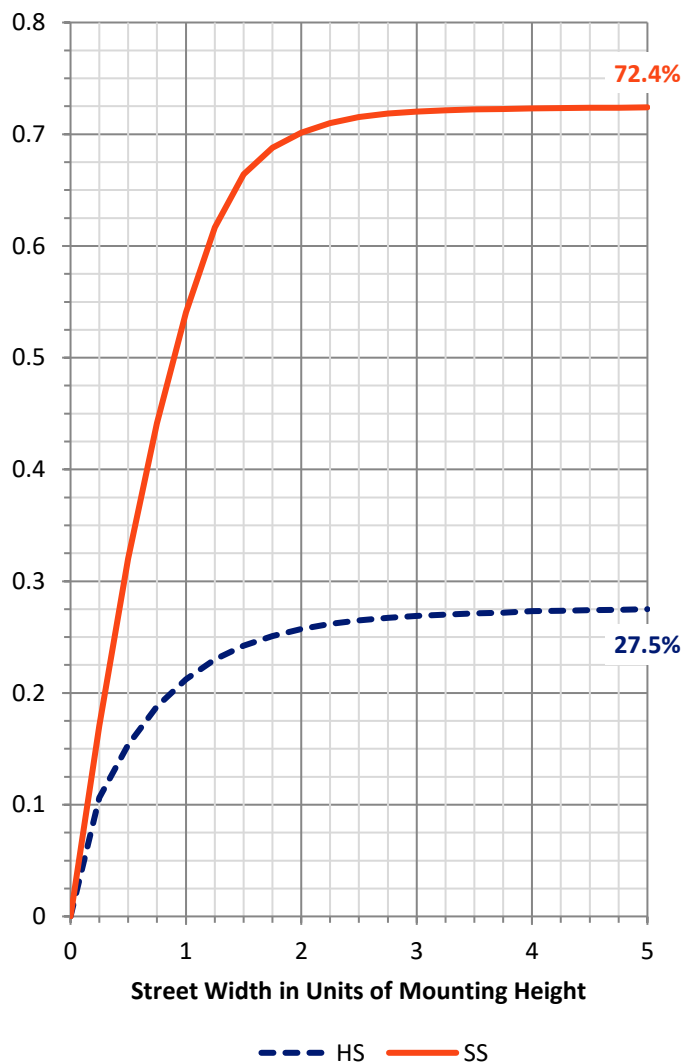
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3940.4	0.0	3940.4
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	10302.6	0.0	10302.6
	% Fixture	72.3	0.0	72.3
Total	Lumens	14243.0	0.0	14243.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.4	3.4
10°-20°	1105.4	7.8
20°-30°	1553.2	10.9
30°-40°	2171.3	15.2
40°-50°	2939.6	20.6
50°-60°	3580.5	25.1
60°-70°	1864.9	13.1
70°-80°	477.8	3.4
80°-90°	72.9	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°	14243.0	100.0
0°-180°	14243.0	100.0

Coefficient of Utilization



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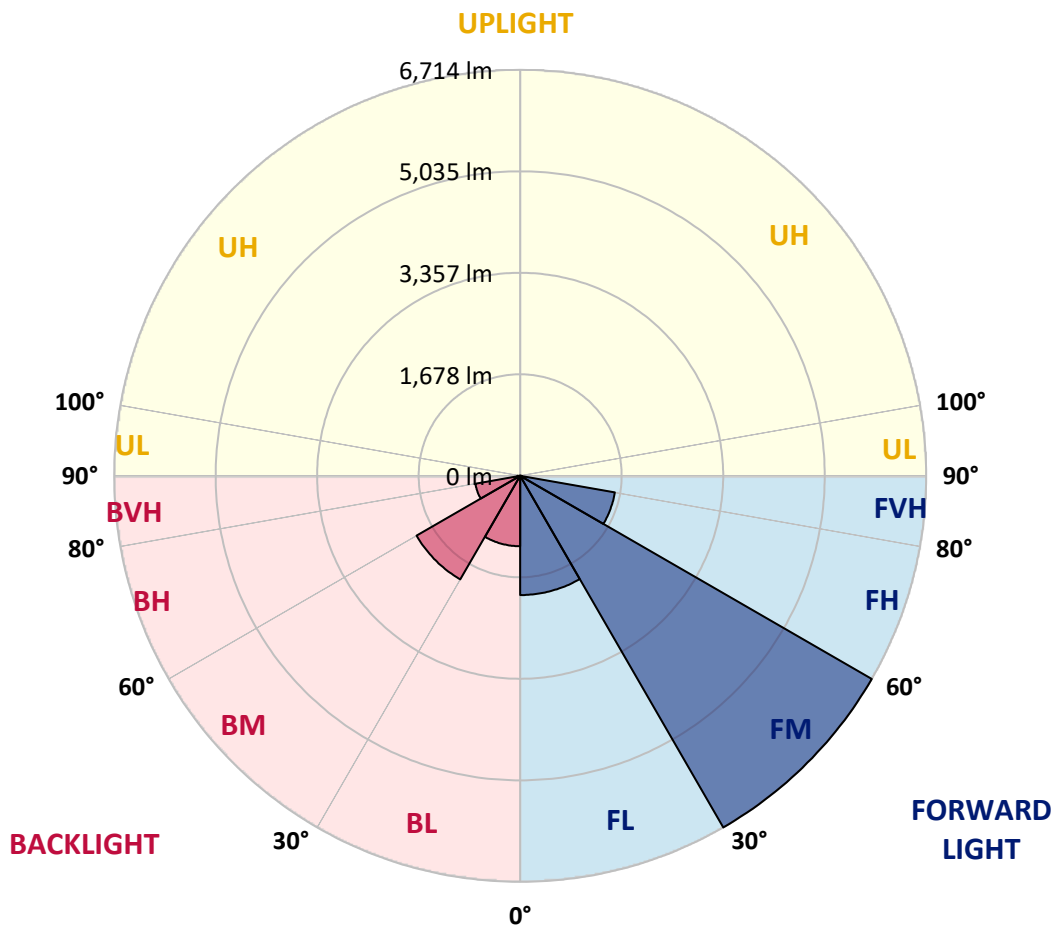
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1971.4	13.8			
FM (30°-60°)	6713.7	47.1			
FH (60°-80°)	1589.9	11.2			G1/1800
FVH (80°-90°)	27.5	0.2			G1/100
BL (0°-30°)	1164.6	8.2	B3/2500		
BM (30°-60°)	1977.7	13.9	B2/2500		
BH (60°-80°)	752.8	5.3	B2/1000		G2/1000
BVH (80°-90°)	45.3	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°	5536.1	5536.1	5536.1	5536.1	5536.1	5536.1	5536.1	5536.1	5536.1	5536.1	5536.1
2.5°	5693.5	5671.6	5675.2	5704.5	5667.9	5653.3	5653.3	5581.9	5587.4	5537.9	5525.1
5°	5561.7	5510.5	5545.2	5589.2	5596.5	5611.2	5634.9	5616.6	5565.4	5512.3	5426.2
7.5°	5217.5	5263.3	5276.1	5307.3	5373.2	5433.6	5508.6	5457.4	5455.5	5402.4	5351.2
10°	4915.5	4888.0	4957.6	5003.4	5113.2	5213.9	5329.2	5323.7	5351.2	5290.8	5202.9
12.5°	4615.2	4593.3	4626.2	4730.6	4884.4	5030.8	5168.1	5116.9	5263.3	5252.3	5063.8
15°	4296.7	4313.2	4360.8	4457.8	4659.2	4834.9	5008.8	5010.7	5140.7	5184.6	4932.0
17.5°	4073.3	4055.0	4115.5	4260.1	4439.5	4650.0	4847.7	4888.0	5087.6	5113.2	4891.7
20°	3906.8	3932.4	4011.1	4084.3	4291.2	4545.7	4769.0	4783.7	5076.6	5146.1	4827.6
22.5°	3866.5	3851.8	3877.5	3996.5	4166.7	4443.2	4726.9	4781.8	5074.8	5135.2	4706.8
25°	3824.4	3872.0	3870.1	3989.1	4113.6	4360.8	4761.7	4822.1	5171.8	5191.9	4723.3
27.5°	3919.6	3914.1	3965.3	3974.5	4128.3	4382.7	4834.9	4880.7	5332.9	5316.4	4736.1
30°	4014.8	3987.3	4018.4	4126.4	4197.8	4509.1	5036.3	5032.6	5541.6	5530.6	4776.3
32.5°	4131.9	4119.1	4139.3	4234.5	4355.3	4677.5	5206.6	5314.6	5753.9	5823.5	4915.5
35°	4153.9	4207.0	4254.6	4382.7	4554.8	4950.3	5526.9	5616.6	5999.3	6217.1	5180.9
37.5°	4293.0	4313.2	4424.8	4651.9	4809.3	5314.6	5730.1	5786.9	6222.6	6469.8	5461.0
40°	4441.3	4465.1	4633.5	4871.5	5087.6	5552.6	5920.5	5938.8	6294.0	6663.8	5644.1
42.5°	4642.7	4664.7	4831.3	5129.7	5418.9	5755.8	6089.0	6109.1	6288.5	6887.2	5935.2
45°	4851.4	4904.5	5100.4	5439.1	5699.0	5993.8	6127.4	6209.8	6339.8	7086.7	6171.4
47.5°	5144.3	5193.7	5354.8	5686.2	5990.1	6202.5	6305.0	6385.5	6462.4	7260.6	6323.3
50°	5455.5	5464.7	5660.6	5960.8	6184.2	6438.6	6636.4	6663.8	6623.5	7462.0	6581.4
52.5°	5684.4	5713.7	5865.6	6158.5	6491.7	6804.8	7075.7	7105.0	7026.3	7537.1	6669.3
55°	5305.4	5288.9	5536.1	5926.0	6698.6	7350.3	7743.9	7765.9	7319.2	7769.6	6956.7
57.5°	4100.8	4179.5	4390.1	4860.6	5951.7	7592.0	8260.2	8181.5	7670.7	7886.7	7139.8
60°	2980.4	2962.1	3103.1	3418.0	4485.3	6543.0	7809.8	7890.4	7383.3	7108.7	5887.6
62.5°	2427.5	2401.9	2412.9	2423.9	2894.4	4342.5	5781.4	5779.6	5686.2	5109.5	3970.8
65°	1940.6	2001.0	2006.5	2088.8	2149.3	2594.1	3350.2	3529.6	3073.8	2520.9	1828.9
67.5°	1462.7	1440.8	1514.0	1806.9	1920.4	1872.8	1828.9	1849.0	1314.5	948.3	893.4
70°	862.3	853.1	941.0	1259.5	1581.7	1488.4	1378.5	1380.4	902.5	662.7	737.8
72.5°	472.3	470.5	488.8	638.9	898.9	933.7	827.5	853.1	538.2	536.4	576.7
75°	263.6	258.1	252.6	281.9	324.0	342.3	349.7	353.3	369.8	413.7	430.2
77.5°	97.0	93.4	93.4	108.0	137.3	172.1	217.9	221.5	261.8	300.2	316.7
80°	33.0	36.6	49.4	67.7	91.5	122.7	148.3	151.9	184.9	210.5	216.0
82.5°	20.1	22.0	33.0	47.6	65.9	86.0	109.8	111.7	137.3	153.8	161.1
85°	9.2	11.0	18.3	29.3	42.1	56.8	58.6	58.6	56.8	58.6	54.9
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°	5536.1	5536.1	5536.1	5536.1	5536.1	5536.1	5536.1	5536.1	5536.1	5536.1	5536.1
2.5°	5486.7	5466.5	5404.3	5349.4	5332.9	5259.7	5151.6	5164.5	5085.7	5122.3	5083.9
5°	5411.6	5343.9	5184.6	5116.9	4939.3	4858.7	4803.8	4666.5	4602.4	4589.6	4534.7
7.5°	5219.4	5177.3	4977.7	4794.7	4606.1	4445.0	4238.1	4097.1	3996.5	3969.0	3888.4
10°	5067.4	4974.1	4697.6	4419.4	4150.2	3870.1	3601.0	3390.5	3288.0	3169.0	3128.7
12.5°	4917.3	4776.3	4402.9	4045.9	3698.1	3344.7	3018.9	2762.6	2539.2	2486.1	2467.8
15°	4823.9	4578.6	4139.3	3709.0	3214.7	2753.4	2427.5	2259.1	2121.8	2065.0	2105.3
17.5°	4701.3	4415.7	3886.6	3313.6	2769.9	2345.1	2072.4	1968.0	1918.6	1924.1	1907.6
20°	4547.5	4261.9	3555.3	2954.8	2372.6	2033.9	1878.3	1839.9	1847.2	1860.0	1854.5
22.5°	4437.7	4075.2	3315.4	2588.6	2050.4	1861.8	1797.8	1770.3	1794.1	1805.1	1795.9
25°	4353.4	3915.9	3024.3	2264.6	1863.7	1764.8	1735.5	1733.7	1770.3	1784.9	1775.8
27.5°	4276.6	3767.6	2735.1	2017.5	1739.2	1689.8	1680.6	1702.6	1726.4	1741.0	1753.8
30°	4230.8	3654.1	2464.1	1810.6	1676.9	1653.1	1636.7	1656.8	1669.6	1684.3	1676.9
32.5°	4274.7	3573.6	2202.4	1693.4	1625.7	1601.9	1623.8	1611.0	1633.0	1645.8	1625.7
35°	4412.0	3502.2	2015.6	1631.2	1567.1	1576.2	1579.9	1574.4	1583.6	1572.6	1596.4
37.5°	4547.5	3476.5	1843.5	1578.1	1539.6	1539.6	1536.0	1525.0	1543.3	1539.6	1550.6
40°	4719.6	3493.0	1697.1	1521.3	1514.0	1510.3	1495.7	1493.9	1486.5	1488.4	1492.0
42.5°	4869.7	3529.6	1612.9	1484.7	1490.2	1497.5	1470.1	1448.1	1457.3	1438.9	1438.9
45°	5029.0	3562.6	1537.8	1459.1	1453.6	1451.8	1429.8	1417.0	1409.7	1411.5	1428.0
47.5°	5279.8	3610.2	1481.1	1424.3	1428.0	1400.5	1395.0	1378.5	1385.9	1396.8	1398.7
50°	5457.4	3710.9	1437.1	1384.0	1396.8	1378.5	1345.6	1338.3	1338.3	1356.6	1352.9
52.5°	5581.9	3851.8	1395.0	1340.1	1345.6	1330.9	1319.9	1303.5	1292.5	1318.1	1330.9
55°	5962.6	4086.2	1384.0	1303.5	1301.6	1287.0	1266.9	1250.4	1244.9	1248.5	1274.2
57.5°	5926.0	4012.9	1349.2	1239.4	1235.7	1215.6	1195.5	1190.0	1188.1	1191.8	1199.1
60°	4811.1	2963.9	1204.6	1166.2	1160.7	1157.0	1136.9	1114.9	1103.9	1114.9	1105.8
62.5°	3183.6	1984.5	1061.8	1078.3	1082.0	1072.8	1039.8	1017.9	1021.5	1034.4	1014.2
65°	1563.4	1166.2	963.0	1006.9	1010.6	984.9	953.8	928.2	915.4	926.3	917.2
67.5°	893.4	891.6	882.4	928.2	926.3	900.7	851.3	829.3	807.3	811.0	805.5
70°	757.9	772.6	790.9	818.3	816.5	787.2	728.6	712.1	681.0	677.4	668.2
72.5°	596.8	622.4	662.7	682.9	666.4	629.8	591.3	563.9	536.4	519.9	525.4
75°	443.0	479.6	501.6	514.4	488.8	468.7	437.5	404.6	371.6	357.0	351.5
77.5°	322.2	333.2	353.3	362.5	346.0	325.9	307.6	274.6	243.5	223.3	217.9
80°	225.2	232.5	247.1	247.1	247.1	238.0	214.2	181.2	161.1	142.8	139.1
82.5°	157.4	164.8	179.4	172.1	170.3	159.3	144.6	119.0	97.0	84.2	80.6
85°	54.9	60.4	73.2	87.9	93.4	91.5	82.4	65.9	51.3	42.1	38.4
87.5°	12.8	12.8	14.6	12.8	12.8	14.6	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)