

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: P651424

Luminaire Tested: **GALN-SA5D-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-840-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19814.8 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

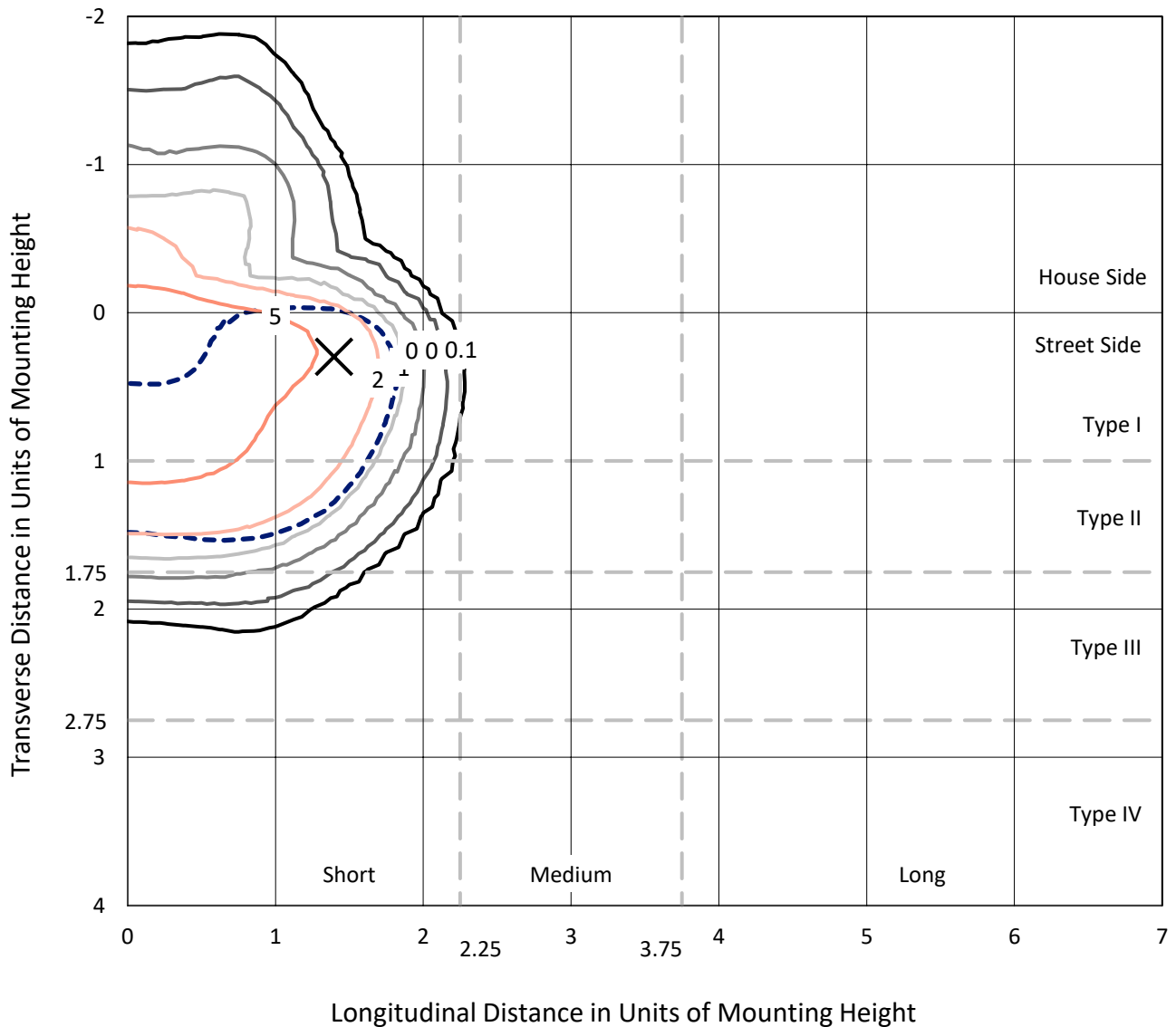
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

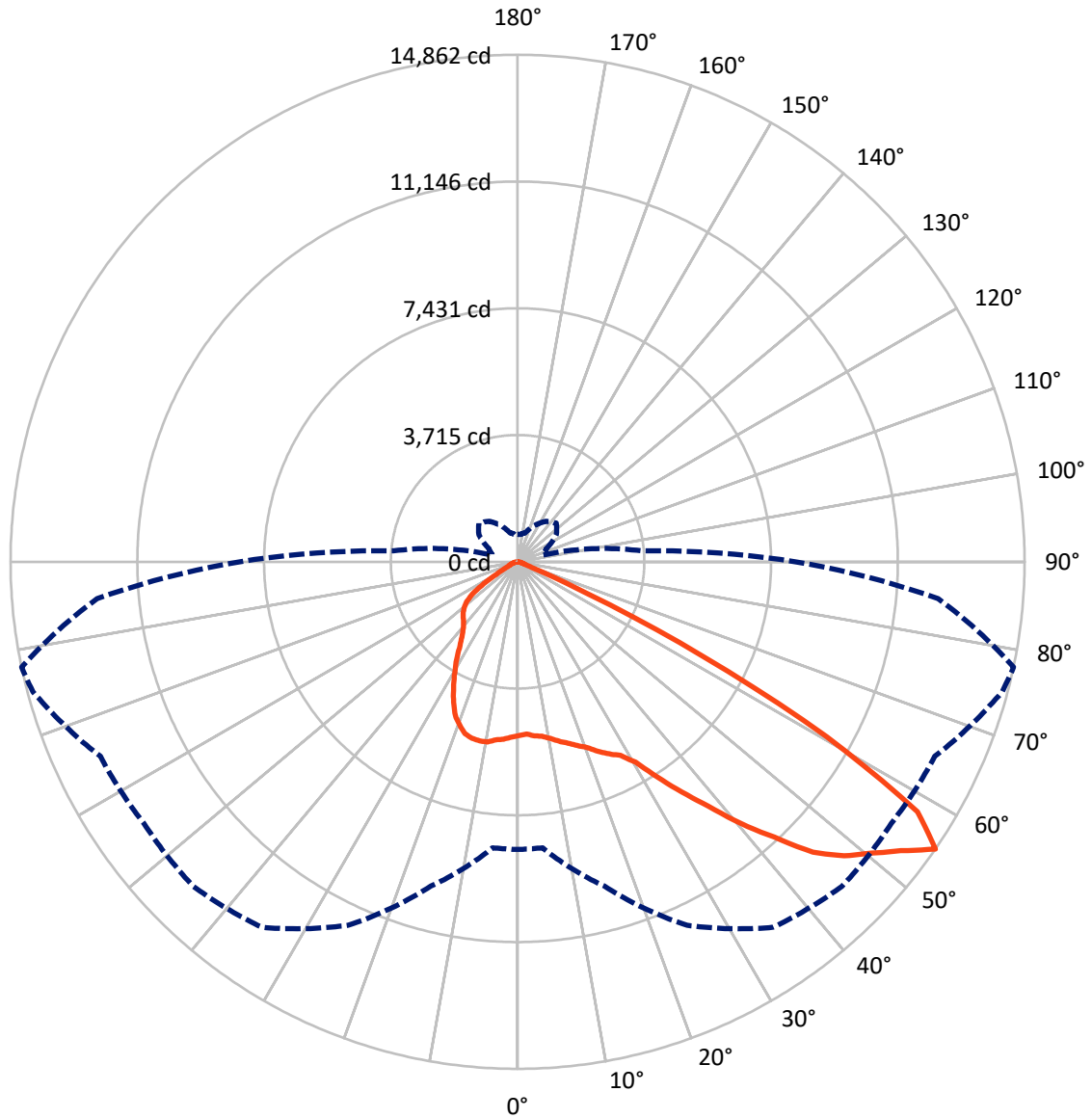
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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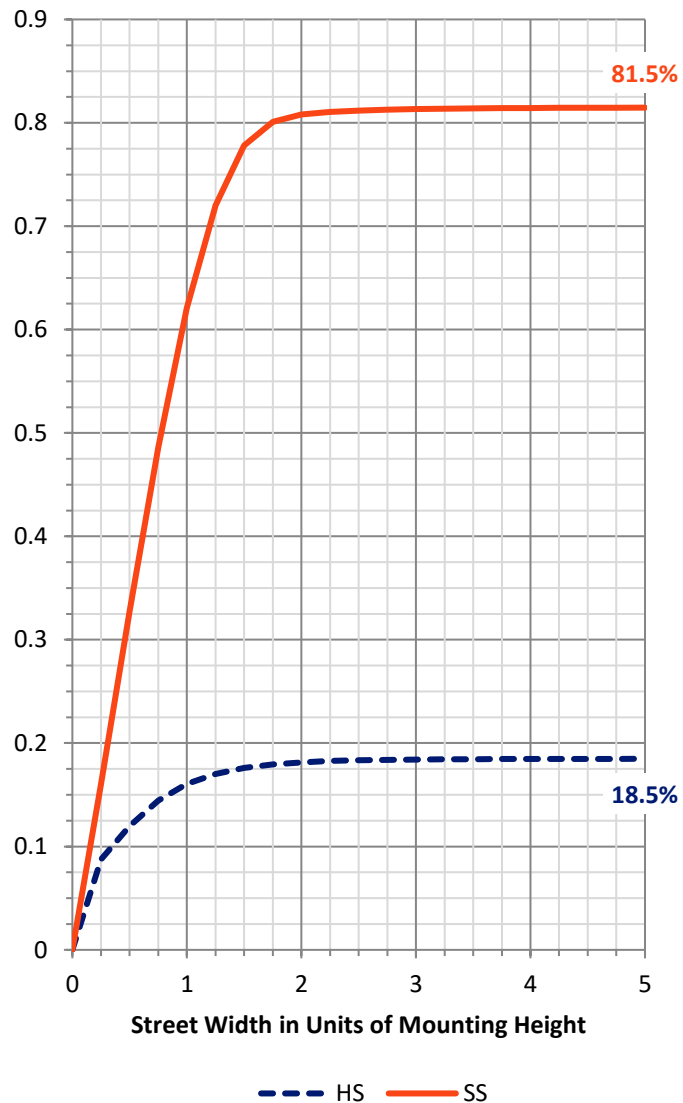
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3680.4	0.0	3680.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	16134.4	0.0	16134.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	19814.8	0.0	19814.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.3	2.3
10°-20°	1202.2	6.1
20°-30°	2107.2	10.6
30°-40°	3474.6	17.5
40°-50°	5056.0	25.5
50°-60°	5728.9	28.9
60°-70°	1638.0	8.3
70°-80°	127.2	0.6
80°-90°	26.5	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°	19814.8	100.0
0°-180°	19814.8	100.0

Coefficient of Utilization



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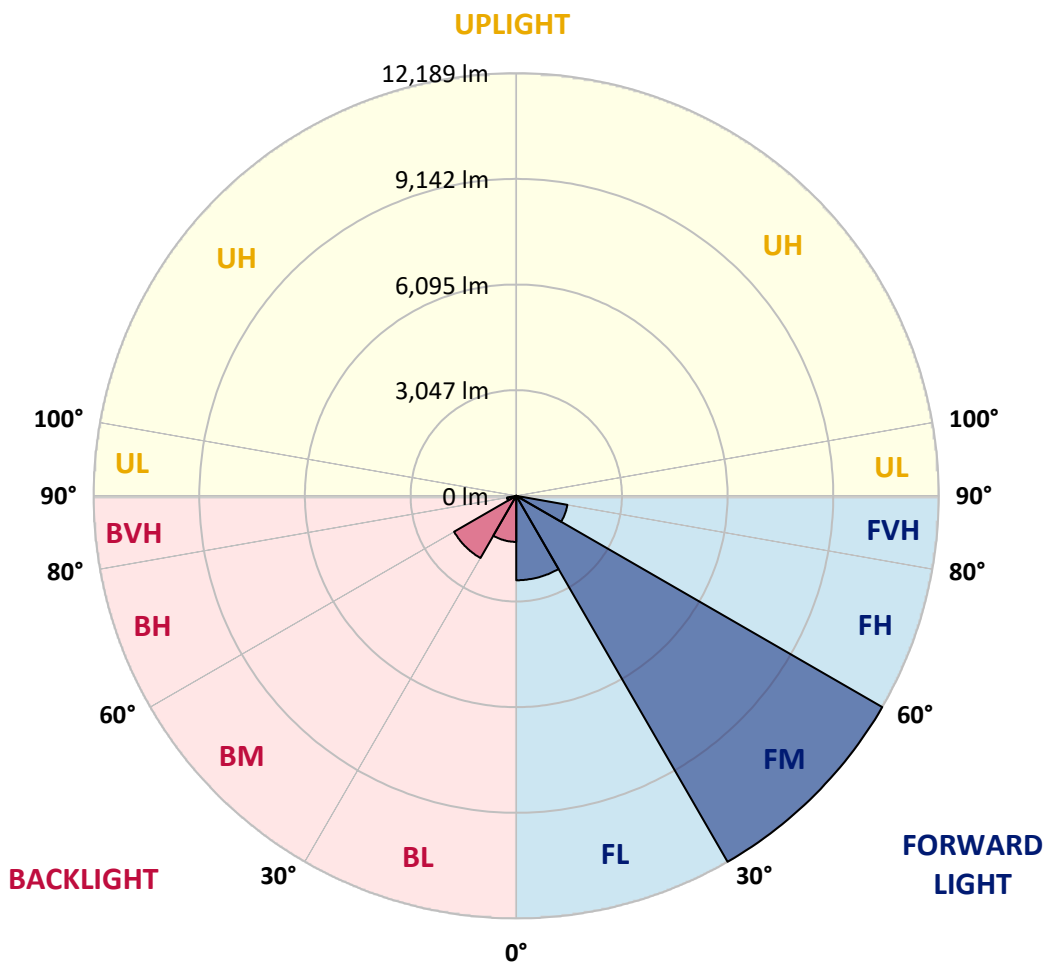
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2435.8	12.3			
FM (30°-60°)	12189.2	61.5			
FH (60°-80°)	1496.5	7.6			G1/1800
FVH (80°-90°)	12.9	0.1			G1/100
BL (0°-30°)	1327.9	6.7	B3/2500		
BM (30°-60°)	2070.3	10.4	B2/2500		
BH (60°-80°)	268.6	1.4	B1/500		G1/500
BVH (80°-90°)	13.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5094.4	5094.4	5094.4	5094.4	5094.4	5094.4	5094.4	5094.4	5094.4	5094.4	5094.4
2.5°	4789.7	4835.8	4842.9	4899.6	4896.0	4991.7	5020.0	5023.5	5087.3	5055.4	5136.9
5°	4655.1	4630.3	4619.7	4718.9	4747.2	4832.2	4903.1	4945.6	5076.7	5122.7	5207.7
7.5°	4534.7	4534.7	4541.7	4630.3	4619.7	4729.5	4803.9	4935.0	5126.3	5165.3	5268.0
10°	4417.8	4375.2	4428.4	4520.5	4598.4	4648.0	4803.9	4927.9	5151.0	5264.4	5406.1
12.5°	4357.6	4378.8	4385.9	4453.2	4538.2	4687.0	4772.0	4977.5	5328.2	5395.5	5547.8
15°	4736.6	4694.0	4591.4	4531.1	4602.0	4672.8	4885.4	5094.4	5420.3	5516.0	5686.0
17.5°	5175.9	5140.4	5055.4	4892.4	4733.1	4864.1	5030.6	5221.9	5519.5	5661.2	5912.7
20°	5749.8	5693.1	5608.1	5289.2	5151.0	5009.3	5186.5	5413.3	5682.5	5810.0	6068.7
22.5°	6433.6	6433.6	6242.2	5856.1	5569.1	5434.5	5508.9	5640.0	5863.2	6036.8	6291.9
25°	7145.6	7124.4	6950.8	6550.5	6065.1	5905.7	5990.7	6082.8	6143.0	6238.7	6408.8
27.5°	7960.4	7836.4	7616.8	7174.0	6745.3	6437.1	6529.2	6447.7	6373.4	6422.9	6667.4
30°	8513.1	8591.1	8311.2	7886.1	7482.2	7138.5	7156.2	7085.4	6745.3	6816.1	6961.4
32.5°	9087.0	9136.6	8980.7	8746.9	8343.1	7942.7	7797.5	7737.3	7482.2	7514.1	7372.4
35°	9565.3	9660.9	9522.7	9420.0	9303.1	8980.7	8580.4	8775.2	8364.3	8286.4	7917.9
37.5°	10004.5	9976.2	10139.2	10032.9	10008.2	9781.4	9342.1	9381.0	9104.8	9087.0	8661.9
40°	10397.8	10404.9	10628.1	10677.7	10578.5	10174.6	9536.9	9845.2	10068.4	10089.6	9544.0
42.5°	10723.8	10819.4	11010.7	11411.0	11262.3	10589.1	9738.9	10075.4	10904.4	11035.5	10380.1
45°	11007.2	11202.0	11439.4	11797.2	11712.2	11177.2	10242.0	10550.2	11797.2	12140.8	11166.5
47.5°	11024.8	11279.9	11538.5	12069.9	12176.3	11492.5	10762.7	11301.2	12505.8	12877.7	11740.5
50°	10954.0	11088.7	11605.9	12183.3	12424.3	12006.2	11492.5	11931.8	13193.0	13426.8	12031.0
52.5°	10114.4	10217.1	11255.2	12289.6	12870.6	12587.2	12459.7	12810.4	13894.4	14068.1	12303.7
55°	8431.6	8413.9	9841.6	11754.7	13076.1	13448.1	13370.1	13494.1	14705.7	14861.6	12371.1
57.5°	5767.5	6089.9	7322.8	9788.5	11818.4	13246.2	13327.7	13122.1	13759.9	13820.1	10784.0
60°	3110.5	3245.1	4237.0	6532.7	8998.4	10794.6	11007.2	10635.2	10585.6	10415.5	7698.3
62.5°	1236.4	1303.7	1867.0	3234.5	4903.1	6561.1	7018.1	6865.8	6539.8	6093.5	3985.5
65°	588.1	630.6	928.2	1512.7	2175.2	2734.9	3191.9	3333.6	2458.7	2214.2	1314.3
67.5°	400.3	432.2	676.7	864.4	775.8	811.3	1055.7	981.4	577.4	492.4	364.9
70°	304.7	325.9	542.0	588.1	347.2	244.5	272.8	255.1	237.3	240.9	237.3
72.5°	216.1	233.8	396.8	347.2	152.3	113.4	145.2	173.6	173.6	173.6	170.1
75°	131.1	148.8	230.3	134.6	60.2	60.2	92.1	116.9	124.0	127.5	120.4
77.5°	67.3	85.0	78.0	38.9	38.9	46.1	67.3	81.5	88.6	88.6	85.0
80°	14.1	14.1	14.1	21.3	38.9	49.6	67.3	74.4	85.0	85.0	78.0
82.5°	0.0	3.5	10.6	21.3	35.4	46.1	63.7	74.4	85.0	88.6	81.5
85°	0.0	3.5	7.1	14.1	24.8	28.3	24.8	21.3	21.3	21.3	21.3
87.5°	0.0	0.0	3.5	3.5	3.5	7.1	7.1	7.1	7.1	7.1	7.1
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°	5094.4	5094.4	5094.4	5094.4	5094.4	5094.4	5094.4	5094.4	5094.4	5094.4	5094.4
2.5°	5144.0	5154.7	5136.9	5133.4	5119.2	5161.7	5059.0	5034.1	5098.0	5037.7	5051.9
5°	5211.3	5236.1	5204.2	5151.0	5073.2	4952.6	4850.0	4715.3	4651.6	4605.5	4598.4
7.5°	5260.9	5278.6	5246.7	5076.7	4842.9	4538.2	4311.5	4145.0	4013.8	3974.9	3911.2
10°	5462.8	5466.4	5307.0	4931.5	4474.5	4074.1	3726.9	3471.8	3340.8	3259.3	3223.9
12.5°	5597.4	5590.4	5268.0	4644.5	4035.1	3503.7	3106.9	2798.8	2678.2	2639.3	2614.5
15°	5767.5	5728.6	5175.9	4350.4	3468.3	2894.4	2536.5	2324.0	2313.3	2288.6	2313.3
17.5°	5902.1	5792.3	5041.3	3815.4	2926.3	2384.2	2150.4	2164.6	2192.9	2217.7	2221.2
20°	6121.8	5895.1	4733.1	3347.9	2423.2	2044.1	2040.6	2104.4	2175.2	2203.6	2231.9
22.5°	6288.3	5937.5	4403.6	2848.3	2012.3	1906.0	1966.2	2061.9	2115.0	2143.4	2185.8
25°	6348.5	5820.6	3964.3	2348.8	1813.9	1842.2	1934.3	1998.0	2065.4	2097.3	2079.5
27.5°	6408.8	5760.4	3439.9	1934.3	1707.6	1799.7	1877.6	1941.4	1962.6	2005.2	2033.5
30°	6554.0	5551.4	2968.8	1672.2	1654.4	1771.3	1828.0	1849.3	1906.0	1930.8	1930.8
32.5°	6670.9	5469.9	2469.3	1548.2	1647.4	1785.5	1792.6	1792.6	1799.7	1782.0	1774.9
35°	6911.8	5190.1	2022.9	1473.8	1643.8	1789.1	1806.8	1746.6	1583.6	1519.9	1502.1
37.5°	7209.4	5009.3	1693.4	1456.0	1668.6	1831.6	1860.0	1633.2	1420.6	1317.8	1300.2
40°	7570.8	4881.8	1477.3	1449.0	1725.3	1930.8	1845.7	1544.6	1268.3	1119.5	1112.4
42.5°	7992.4	4764.9	1332.1	1445.4	1796.1	2033.5	1831.6	1470.2	1112.4	1013.2	1027.4
45°	8328.8	4701.2	1232.8	1420.6	1820.9	2093.8	1842.2	1339.1	1048.6	984.9	992.0
47.5°	8591.1	4566.5	1151.4	1378.1	1817.4	2115.0	1746.6	1286.0	1016.8	1034.4	1052.2
50°	8598.1	4385.9	1048.6	1286.0	1764.2	2076.0	1636.8	1236.4	1009.7	1084.0	1119.5
52.5°	8502.5	4130.8	938.8	1154.9	1640.3	1941.4	1537.5	1215.2	977.7	970.7	1013.2
55°	8162.4	3652.5	754.6	935.3	1385.2	1601.3	1449.0	1176.1	882.1	800.6	807.7
57.5°	6596.5	2618.0	556.2	669.6	981.4	1172.6	1307.3	1158.5	793.6	680.2	683.7
60°	4084.7	1484.4	407.4	457.0	605.8	712.1	1059.2	1077.0	708.5	573.9	566.8
62.5°	2097.3	733.4	315.3	322.4	372.0	418.1	726.3	903.4	641.3	545.6	545.6
65°	701.5	361.4	276.4	248.0	248.0	258.6	439.3	627.0	542.0	457.0	457.0
67.5°	301.2	269.2	240.9	216.1	198.4	187.8	248.0	364.9	403.8	347.2	333.0
70°	233.8	226.7	209.0	180.6	155.8	141.7	145.2	187.8	230.3	223.2	216.1
72.5°	173.6	173.6	166.5	141.7	120.4	102.8	95.6	99.2	109.8	113.4	116.9
75°	120.4	124.0	124.0	109.8	88.6	74.4	63.7	53.2	42.5	35.4	31.9
77.5°	81.5	85.0	92.1	81.5	67.3	49.6	38.9	28.3	17.7	7.1	7.1
80°	70.8	81.5	88.6	81.5	70.8	53.2	38.9	21.3	10.6	0.0	0.0
82.5°	74.4	81.5	92.1	78.0	67.3	49.6	38.9	24.8	10.6	3.5	0.0
85°	17.7	17.7	21.3	24.8	31.9	35.4	28.3	17.7	10.6	3.5	0.0
87.5°	7.1	7.1	7.1	7.1	7.1	3.5	3.5	3.5	3.5	0.0	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)