

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: P529596

Luminaire Tested: **GALN-SA4D-730-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-730-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23762 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

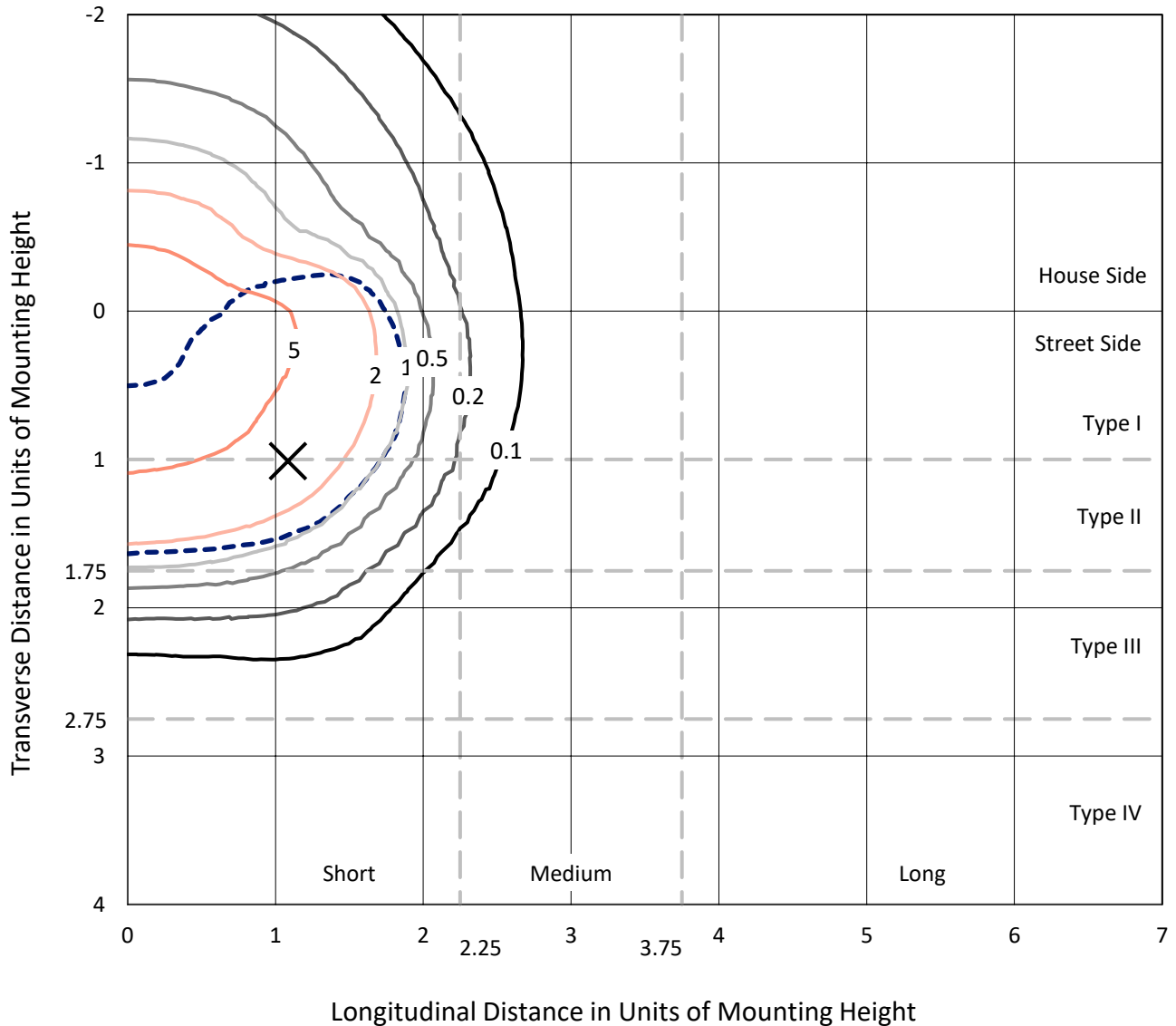
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

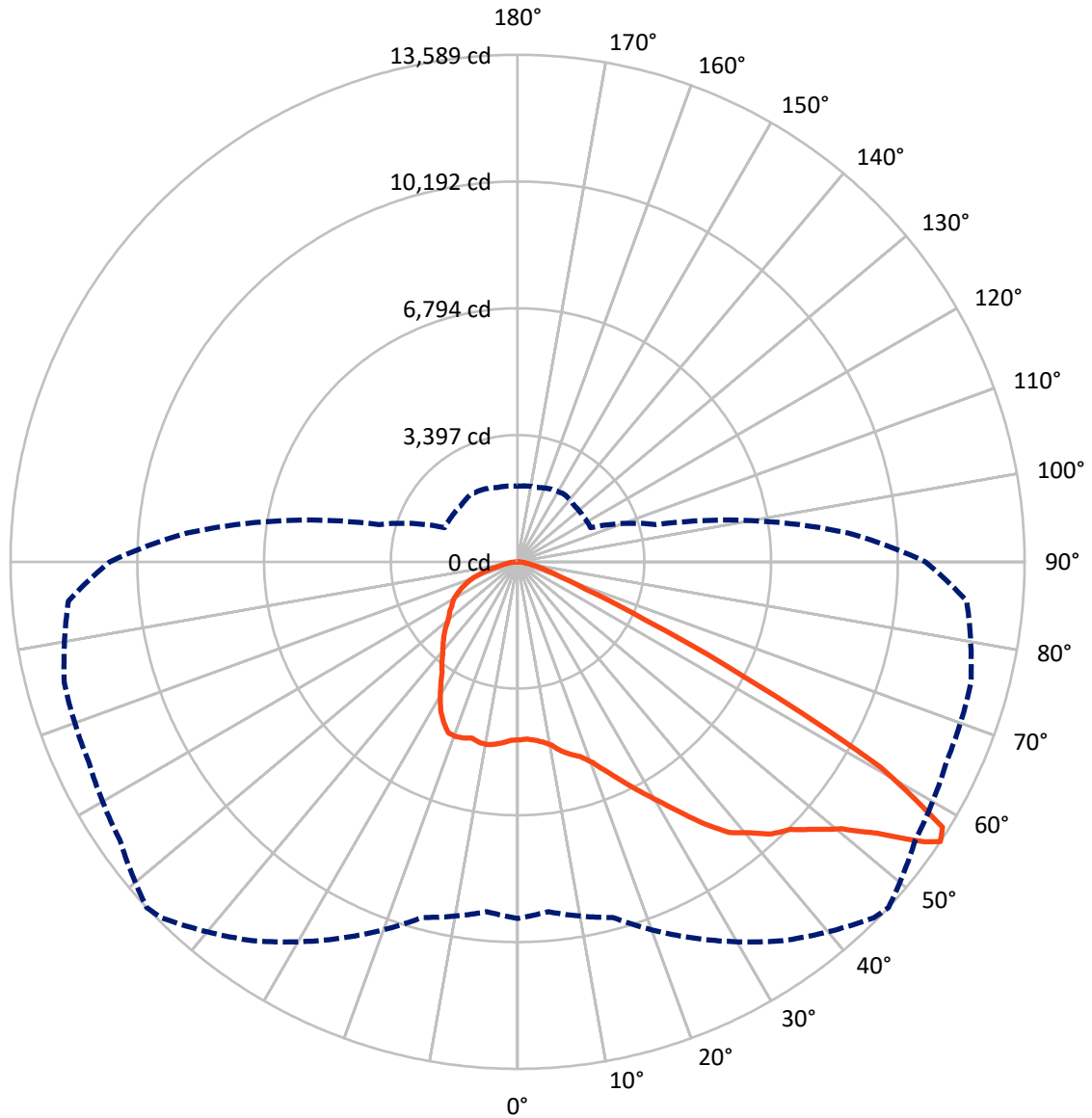
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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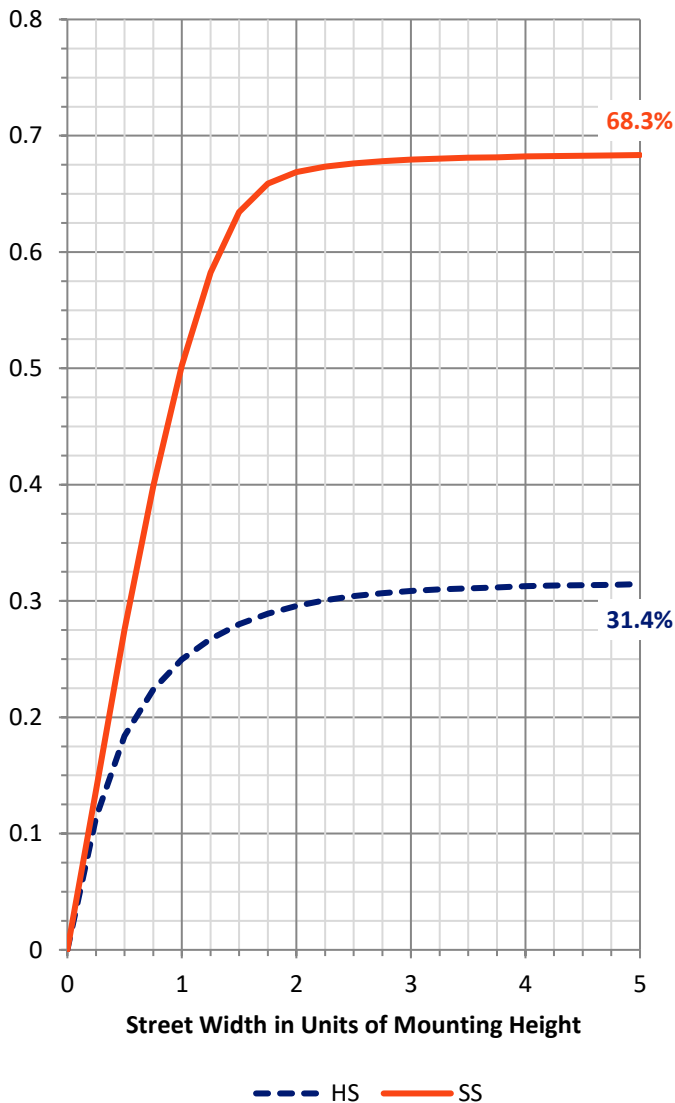
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7529.9	0.0	7529.9
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	16232.1	0.0	16232.1
	% Fixture	68.3	0.0	68.3
Total	Lumens	23762.0	0.0	23762.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.1	2.0
10°-20°	1467.1	6.2
20°-30°	2593.4	10.9
30°-40°	3895.2	16.4
40°-50°	5345.8	22.5
50°-60°	6368.8	26.8
60°-70°	2725.5	11.5
70°-80°	771.3	3.2
80°-90°	129.8	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°	23762.0	100.0
0°-180°	23762.0	100.0

Coefficient of Utilization

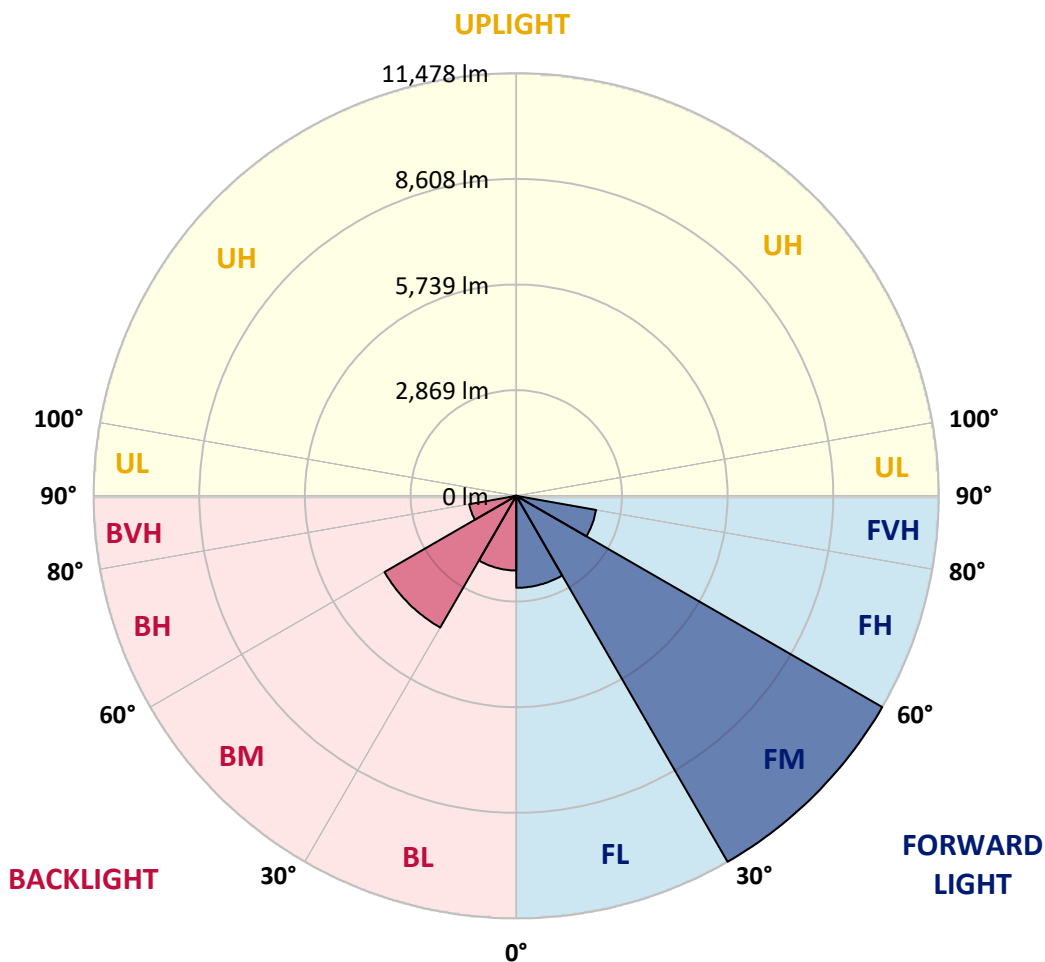


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2498.2	10.5			
FM (30°-60°)	11477.6	48.3			
FH (60°-80°)	2201.2	9.3			G2/5000
FVH (80°-90°)	55.1	0.2			G1/100
BL (0°-30°)	2027.4	8.5	B3/2500		
BM (30°-60°)	4132.3	17.4	B3/5000		
BH (60°-80°)	1295.6	5.5	B3/2500		G3/2500
BVH (80°-90°)	74.7	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1
2.5°	4754.9	4745.8	4739.7	4788.2	4770.0	4773.1	4754.9	4773.1	4785.2	4757.9	4797.3
5°	4745.8	4773.1	4748.8	4764.0	4803.4	4791.2	4803.4	4839.7	4830.6	4821.6	4809.4
7.5°	4830.6	4833.7	4851.9	4857.9	4870.0	4857.9	4876.1	4909.4	4900.3	4848.8	4854.9
10°	4951.9	4957.9	4961.0	4994.3	5015.5	5018.5	4997.3	4967.0	4964.0	5033.7	4985.2
12.5°	5091.3	5076.1	5112.5	5124.6	5148.8	5176.1	5203.4	5139.8	5179.2	5182.2	5124.6
15°	5294.3	5309.5	5267.0	5267.0	5276.1	5279.2	5354.9	5324.6	5318.6	5285.2	5309.5
17.5°	5597.4	5494.3	5491.3	5448.9	5442.8	5467.1	5494.3	5518.6	5600.4	5533.7	5403.4
20°	5818.6	5842.8	5755.0	5703.4	5712.5	5767.1	5739.8	5848.9	5906.5	5797.4	5670.1
22.5°	6209.5	6127.7	6148.9	6033.8	6042.9	6100.4	6097.4	6209.5	6242.9	6070.1	5885.3
25°	6473.2	6452.0	6470.2	6379.2	6391.4	6436.8	6509.5	6694.4	6639.9	6448.9	6021.6
27.5°	6858.1	6815.6	6800.5	6767.1	6755.0	6876.2	6961.1	7158.1	7118.7	6839.9	6264.1
30°	7252.0	7224.8	7239.9	7103.5	7152.0	7409.6	7433.9	7703.6	7685.4	7194.4	6533.8
32.5°	7524.8	7539.9	7567.2	7491.4	7706.6	7912.7	7994.5	8300.6	8315.7	7803.6	7055.0
35°	7964.2	7912.7	7927.8	8015.7	8115.7	8491.5	8624.9	8827.9	8955.2	8443.0	7555.1
37.5°	8240.0	8294.5	8230.9	8370.3	8630.9	9082.5	9203.7	9412.8	9546.1	9073.4	8236.9
40°	8670.3	8582.4	8627.9	8727.9	8994.6	9582.5	9549.2	9764.3	9806.8	9609.8	8873.4
42.5°	9134.0	9091.6	9027.9	9255.2	9479.5	9906.8	9973.4	9873.4	10088.6	10134.0	9782.5
45°	9688.6	9740.1	9749.2	9755.2	9952.2	10325.0	10234.1	10146.2	10394.7	10725.0	10346.2
47.5°	10203.7	10040.1	10158.3	10321.9	10600.7	10603.8	10709.8	10500.7	10764.4	11058.4	10855.3
50°	10376.5	10297.7	10455.3	10764.4	11194.7	11240.2	11252.3	10955.3	11091.7	11325.0	11031.1
52.5°	10309.8	10282.5	10685.6	11164.4	11794.8	12025.1	12085.7	11719.0	11794.8	11688.7	11419.0
55°	9991.6	10073.4	10479.5	11455.4	12422.1	13134.3	13249.4	12785.8	12303.9	12385.7	12088.7
56°	9555.2	9412.8	9867.4	11125.0	12394.8	13494.9	13588.8	13010.0	12682.7	12576.6	12082.7
57.5°	8106.6	7921.8	8518.8	10009.8	11706.9	13358.5	13428.2	13104.0	12619.1	12403.9	11200.8
60°	4745.8	4836.7	5594.3	6903.5	9030.9	10952.3	11185.6	11422.0	11097.8	10134.0	8337.0
62.5°	2291.1	2233.5	2776.0	3957.9	5503.4	6991.4	6921.7	7585.4	7949.0	7200.5	5264.0
65°	1200.1	1194.0	1515.3	2160.8	3024.5	3673.0	3736.6	4094.2	4594.3	3709.4	2672.9
67.5°	881.9	906.1	1066.7	1518.3	1945.6	1985.0	1975.9	2154.7	2203.2	1863.8	1642.5
70°	691.0	703.1	821.3	1154.6	1448.6	1297.1	1269.8	1291.0	1433.4	1494.0	1421.3
72.5°	500.0	512.2	612.2	778.8	906.1	884.9	903.1	1021.3	1197.1	1260.7	1184.9
75°	333.4	342.4	397.0	475.8	536.4	578.8	612.2	748.5	912.2	948.6	912.2
77.5°	230.3	239.4	275.8	336.4	342.4	369.7	381.8	445.5	545.5	591.0	566.7
80°	130.3	130.3	148.5	172.7	212.1	248.5	254.6	306.1	351.5	381.8	387.9
82.5°	60.6	63.6	78.8	106.1	139.4	172.7	178.8	212.1	245.5	275.8	284.9
85°	30.3	33.3	45.5	63.6	84.9	103.0	100.0	103.0	109.1	103.0	106.1
87.5°	9.1	9.1	12.1	15.2	12.1	15.2	15.2	18.2	21.2	24.2	27.3
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°	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1
2.5°	4800.3	4809.4	4748.8	4806.4	4785.2	4782.2	4824.6	4818.5	4833.7	4827.6	4791.2
5°	4803.4	4782.2	4845.8	4788.2	4815.5	4873.1	4833.7	4924.6	4879.1	4909.4	4842.8
7.5°	4897.3	4903.4	4891.3	4915.5	4903.4	4930.7	4909.4	4930.7	4894.3	4897.3	4957.9
10°	4979.1	4961.0	4982.2	4951.9	4973.1	4964.0	4915.5	4900.3	4912.5	4897.3	4936.7
12.5°	5130.7	5097.3	5082.2	5045.8	5021.6	4930.7	4854.9	4812.5	4870.0	4879.1	4860.9
15°	5285.2	5288.3	5218.5	5136.7	4985.2	4848.8	4867.0	4882.2	4882.2	4906.4	4860.9
17.5°	5382.2	5382.2	5318.6	5154.9	5000.4	4921.6	4903.4	4854.9	4812.5	4806.4	4803.4
20°	5551.9	5500.4	5354.9	5151.9	4994.3	4957.9	4821.6	4706.4	4618.5	4588.2	4585.2
22.5°	5745.9	5615.5	5412.5	5157.9	4985.2	4933.7	4679.1	4506.4	4348.8	4282.1	4291.2
25°	5924.7	5715.6	5445.8	5130.7	4951.9	4703.4	4418.5	4179.1	4015.4	3960.9	3933.6
27.5°	6048.9	5821.6	5445.8	5154.9	4827.6	4445.8	4154.8	3848.8	3706.3	3670.0	3676.0
30°	6215.6	5955.0	5539.8	5103.4	4579.1	4112.4	3763.9	3563.9	3479.0	3448.7	3469.9
32.5°	6606.5	6303.5	5670.1	4979.1	4285.2	3779.1	3497.2	3385.1	3260.8	3200.2	3179.0
35°	7030.8	6633.8	5797.4	4770.0	3954.8	3476.0	3300.2	3197.2	3048.7	2982.0	2994.2
37.5°	7630.8	7058.1	5806.5	4424.6	3597.2	3306.3	3145.7	2985.1	2863.8	2760.8	2730.5
40°	8440.0	7636.9	5785.3	4060.9	3309.3	3106.3	2988.1	2788.1	2651.7	2579.0	2594.1
42.5°	9152.2	8315.7	5697.4	3648.7	3048.7	2969.9	2836.6	2639.6	2506.2	2430.5	2424.4
45°	9752.2	8815.8	5530.7	3297.2	2830.5	2818.4	2663.8	2512.3	2406.2	2336.5	2366.8
47.5°	10306.8	9218.8	5279.2	2945.7	2630.5	2654.7	2506.2	2412.3	2345.6	2282.0	2278.9
50°	10506.8	9212.8	5057.9	2654.7	2469.9	2457.7	2451.7	2351.7	2282.0	2227.4	2251.7
52.5°	10840.2	9315.8	4818.5	2454.7	2324.4	2327.4	2348.7	2275.9	2197.1	2163.8	2194.1
55°	11319.0	9331.0	4291.2	2221.4	2203.2	2224.4	2224.4	2175.9	2109.2	2082.0	2066.8
56°	10928.0	8879.4	3848.8	2160.8	2142.6	2142.6	2200.2	2145.6	2063.8	2042.6	2024.4
57.5°	10079.5	7779.3	3221.4	2088.0	2060.8	2103.2	2133.5	2075.9	2000.1	1969.8	1988.0
60°	6952.0	5264.0	2421.4	1930.4	1930.4	2000.1	2024.4	1939.5	1906.2	1903.2	1878.9
62.5°	4057.9	3066.9	1894.1	1788.0	1794.1	1851.6	1869.8	1821.3	1778.9	1830.4	1854.7
65°	2151.7	1830.4	1624.4	1636.5	1639.5	1685.0	1763.8	1760.7	1757.7	1772.9	1775.9
67.5°	1557.7	1521.3	1475.9	1463.7	1469.8	1503.1	1581.9	1642.5	1639.5	1603.1	1575.9
70°	1388.0	1336.5	1309.2	1312.2	1288.0	1327.4	1391.0	1430.4	1360.7	1318.3	1300.1
72.5°	1154.6	1139.5	1121.3	1124.3	1075.8	1066.7	994.0	994.0	975.8	963.7	984.9
75°	881.9	875.8	884.9	869.8	818.2	763.7	721.3	681.9	621.3	597.0	584.9
77.5°	557.6	575.8	597.0	563.7	542.5	503.1	460.6	421.2	372.8	345.5	345.5
80°	378.8	394.0	409.1	403.1	378.8	342.4	309.1	266.7	233.3	212.1	209.1
82.5°	287.9	300.0	321.2	297.0	272.7	242.4	215.2	184.9	154.6	130.3	130.3
85°	103.0	118.2	130.3	142.4	151.5	154.6	133.3	109.1	87.9	69.7	66.7
87.5°	27.3	30.3	33.3	30.3	30.3	30.3	33.3	30.3	27.3	21.2	21.2
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)