

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: P651278

Luminaire Tested: **GALN-SA3D-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-840-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17525.6 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

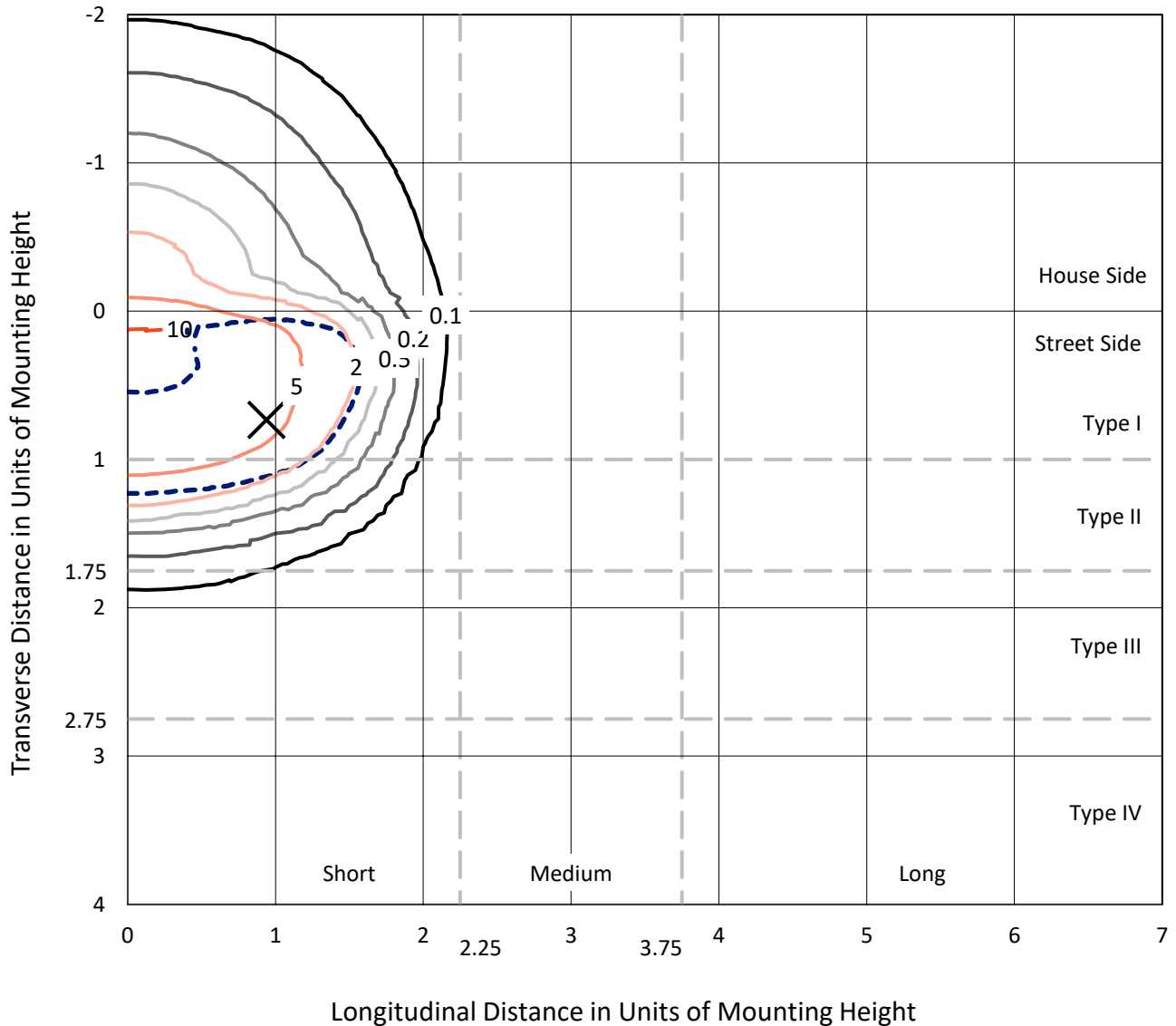
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

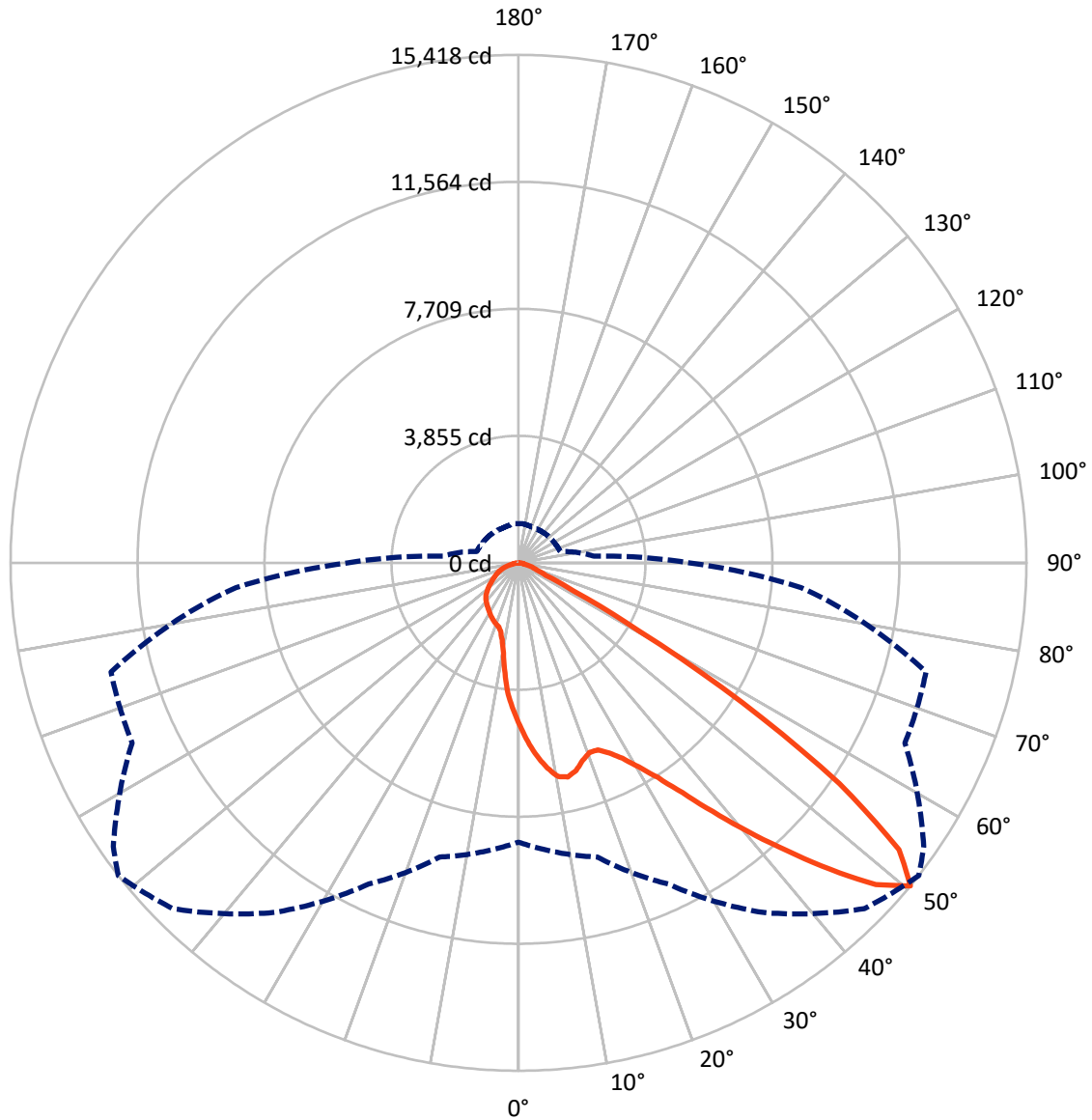
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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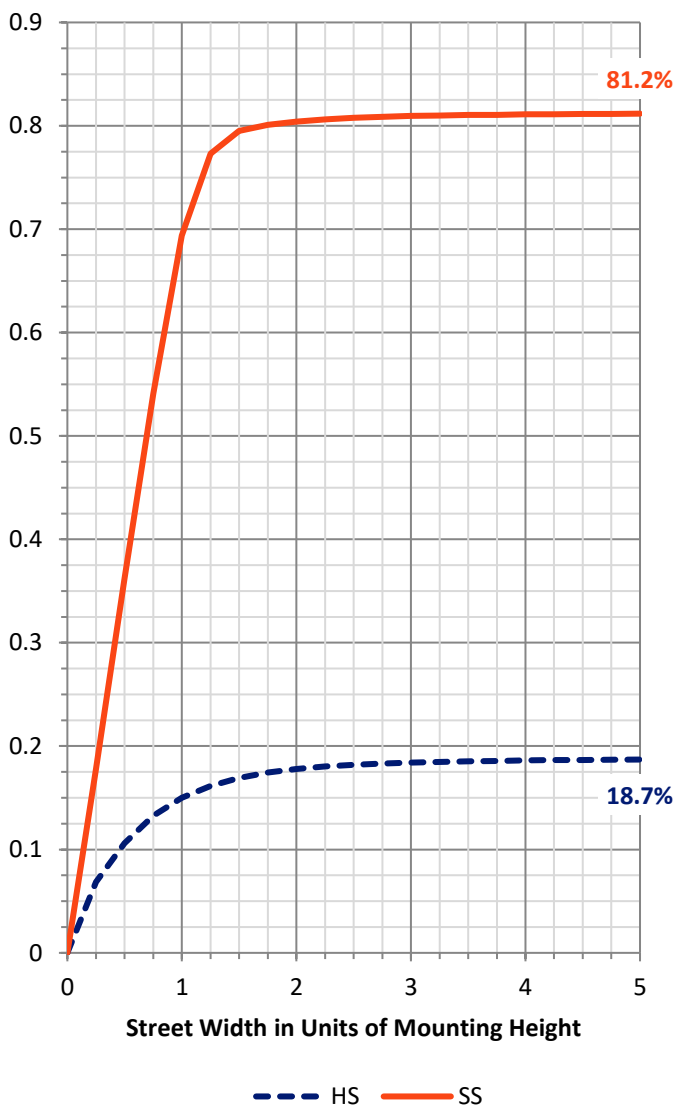
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3294.4	0.0	3294.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	14231.2	0.0	14231.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	17525.6	0.0	17525.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.3	2.6
10°-20°	1220.4	7.0
20°-30°	2055.7	11.7
30°-40°	3449.7	19.7
40°-50°	5277.2	30.1
50°-60°	3847.5	22.0
60°-70°	856.3	4.9
70°-80°	308.8	1.8
80°-90°	54.7	0.3
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°	17525.6	100.0
0°-180°	17525.6	100.0

Coefficient of Utilization

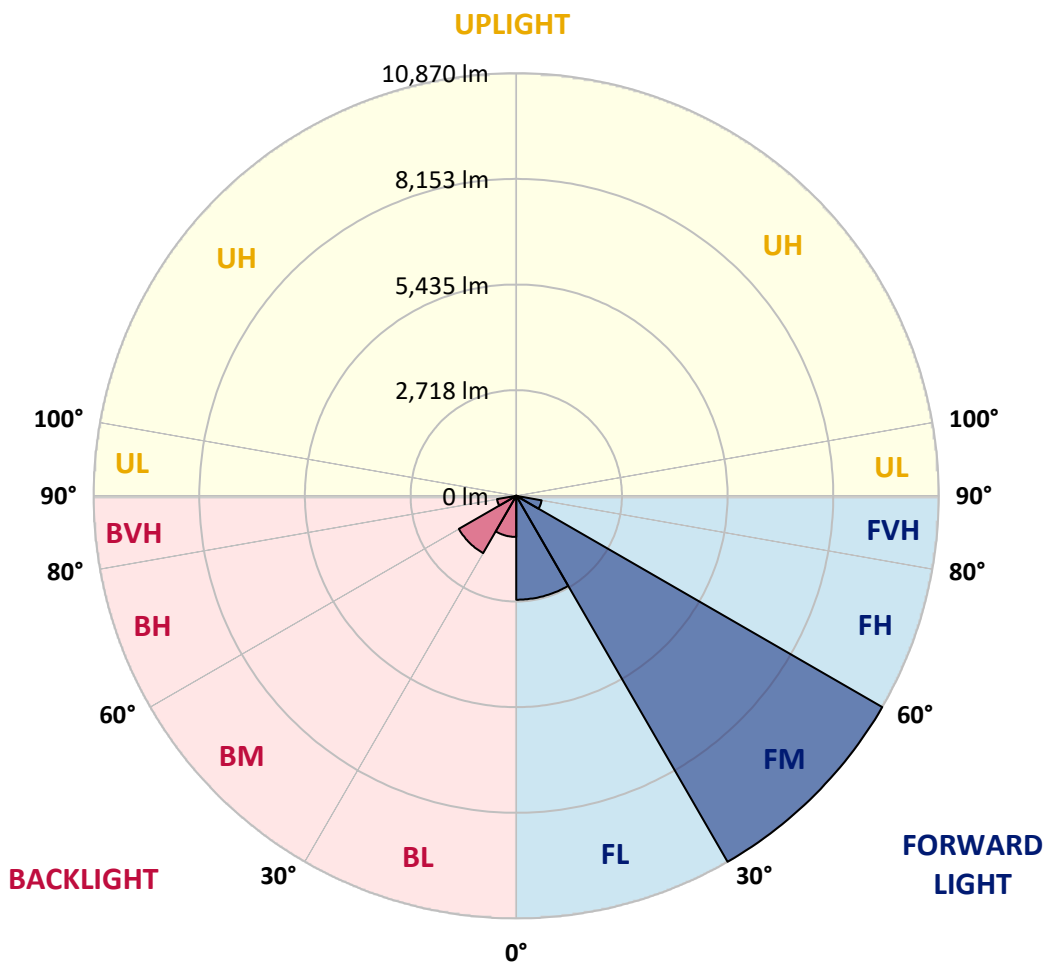


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2673.3	15.3			
FM (30°-60°)	10870.3	62.0			
FH (60°-80°)	663.2	3.8			G1/1800
FVH (80°-90°)	24.5	0.1			G1/100
BL (0°-30°)	1058.2	6.0	B3/2500		
BM (30°-60°)	1704.1	9.7	B2/2500		
BH (60°-80°)	501.9	2.9	B2/1000		G2/1000
BVH (80°-90°)	30.2	0.2			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°	52°	55°	65°	75°	85°
0°	4940.2	4940.2	4940.2	4940.2	4940.2	4940.2	4940.2	4940.2	4940.2	4940.2	4940.2
2.5°	5816.7	5704.8	5717.5	5637.1	5550.6	5525.2	5436.5	5352.0	5288.6	5153.5	5028.8
5°	6357.4	6323.6	6272.9	6209.5	6144.1	5983.5	5892.7	5787.1	5554.8	5345.7	5138.7
7.5°	6435.5	6429.2	6456.7	6456.7	6479.9	6418.6	6289.8	6215.9	5968.7	5628.7	5244.3
10°	5886.4	5905.4	6038.5	6211.6	6452.4	6619.3	6598.1	6579.1	6308.8	5844.1	5368.9
12.5°	5449.2	5407.0	5485.1	5632.9	5994.1	6397.5	6670.0	6672.1	6602.4	6188.4	5459.8
15°	5202.1	5231.6	5252.8	5322.4	5594.9	6061.7	6541.1	6682.7	6988.9	6431.3	5603.3
17.5°	5360.4	5261.2	5257.0	5273.9	5413.3	5763.9	6302.5	6545.3	7200.1	6743.9	5780.8
20°	5567.5	5565.3	5506.2	5485.1	5483.0	5795.6	6146.2	6475.7	7312.1	7149.4	5960.3
22.5°	5930.7	5930.7	5833.6	5787.1	5687.9	5943.4	6167.3	6391.2	7497.9	7428.2	6046.9
25°	6539.0	6439.8	6272.9	6158.8	6101.8	6192.6	6391.2	6591.8	7660.6	7723.9	6226.4
27.5°	7100.8	6944.6	6862.1	6665.8	6589.7	6536.9	6718.6	6921.3	7850.7	8184.4	6323.6
30°	7738.7	7711.2	7563.4	7310.0	7121.9	7024.8	7191.6	7392.3	8199.2	8655.3	6547.4
32.5°	8879.2	8630.0	8429.3	8118.8	7812.6	7605.7	7770.3	7903.5	8777.9	9147.5	6792.5
35°	10110.6	10030.3	9683.9	9124.3	8655.3	8469.5	8566.6	8665.9	9451.6	9899.3	7204.3
37.5°	11320.8	11211.0	10925.9	10454.8	9884.6	9506.5	9576.2	9692.4	10207.7	10913.2	7707.0
40°	12191.0	12055.8	11912.2	11842.5	11276.5	10759.0	10718.9	10748.4	11230.0	11863.6	8264.6
42.5°	12254.4	12421.2	12465.6	12746.4	12613.4	12188.9	11941.8	11948.1	12205.8	12803.5	8828.6
45°	12121.2	11967.1	12294.5	13061.2	13500.5	13699.0	13282.9	13230.1	12809.9	13348.4	9109.5
47.5°	10725.2	10767.4	11320.8	12533.2	13802.5	14689.6	14592.4	14417.1	13133.0	13329.4	9065.1
50°	8478.0	8733.4	9246.7	10756.9	12957.6	14845.8	15418.2	15012.7	12940.8	12805.6	8613.1
52.5°	5645.6	5751.2	6089.2	8038.6	10418.9	13270.2	14467.8	14560.7	12763.4	12119.1	8040.7
55°	2513.4	2504.9	2980.2	4198.9	6536.9	10097.9	11821.3	12387.4	12081.1	11420.0	7483.1
57.5°	1064.5	1100.4	1294.7	1814.3	3214.6	6093.4	8009.0	8505.4	9291.1	9377.7	5740.7
60°	720.2	724.4	777.3	908.2	1345.4	2861.8	4201.0	4796.6	5358.3	5320.3	3045.6
62.5°	566.1	580.8	621.0	673.7	798.4	1298.9	1879.7	2211.3	2247.2	1890.3	1155.3
65°	483.7	485.8	525.9	570.3	625.2	756.1	906.1	923.0	933.5	899.8	849.1
67.5°	399.2	403.4	435.0	485.8	536.5	578.7	621.0	642.1	690.6	785.7	773.0
70°	316.8	323.1	350.6	392.8	439.3	464.7	517.5	536.5	580.8	654.7	684.3
72.5°	240.8	242.9	266.1	295.7	337.9	363.3	407.6	428.7	458.3	521.7	549.2
75°	173.2	179.6	196.5	211.2	217.6	234.5	276.7	299.9	342.1	369.6	371.7
77.5°	90.8	95.0	99.2	99.2	120.3	152.1	179.6	192.2	221.8	242.9	232.4
80°	35.9	38.0	48.6	65.5	84.5	109.8	128.8	135.1	160.5	173.2	179.6
82.5°	21.1	23.2	31.7	46.5	61.2	78.1	92.9	99.2	116.1	130.9	135.1
85°	10.6	12.7	19.0	29.6	40.1	48.6	46.5	44.3	44.3	42.2	44.3
87.5°	4.2	4.2	6.3	6.3	6.3	8.4	10.6	10.6	10.6	12.7	12.7
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°	4940.2	4940.2	4940.2	4940.2	4940.2	4940.2	4940.2	4940.2	4940.2	4940.2	4940.2
2.5°	4946.5	4862.0	4783.9	4640.2	4484.0	4439.6	4258.0	4192.5	4146.0	4091.1	4074.2
5°	4971.8	4859.9	4608.6	4319.2	4089.0	3793.3	3599.0	3389.9	3237.8	3199.8	3189.2
7.5°	5024.6	4832.5	4399.4	3962.3	3491.2	3090.0	2783.7	2619.0	2473.3	2464.8	2450.0
10°	5083.8	4750.1	4171.4	3484.9	2883.0	2511.3	2327.6	2255.7	2219.8	2211.3	2207.1
12.5°	5132.4	4733.2	3915.8	3020.3	2452.1	2228.2	2173.3	2167.0	2181.8	2186.0	2194.4
15°	5153.5	4665.6	3607.5	2604.2	2183.9	2101.5	2124.8	2150.1	2160.7	2188.1	2167.0
17.5°	5193.6	4579.0	3227.3	2274.7	2034.0	2048.8	2088.9	2118.4	2135.3	2154.3	2126.9
20°	5214.8	4500.9	2870.3	2078.3	1981.1	2008.6	2063.5	2086.8	2107.9	2116.3	2084.7
22.5°	5195.7	4340.3	2555.6	1919.9	1930.4	1966.3	2015.0	2040.3	2027.6	1993.8	1974.8
25°	5145.1	4114.3	2228.2	1818.5	1858.6	1922.0	1960.0	1941.0	1917.8	1898.8	1892.4
27.5°	5143.0	3837.7	1991.7	1725.6	1797.4	1884.0	1871.3	1854.4	1865.0	1850.2	1833.3
30°	5153.5	3569.5	1797.4	1672.7	1753.1	1795.3	1810.1	1793.2	1805.8	1778.4	1786.8
32.5°	5098.6	3307.6	1670.6	1611.5	1700.2	1698.1	1746.7	1759.4	1729.8	1672.7	1681.2
35°	5121.8	3096.3	1562.9	1584.1	1641.1	1641.1	1679.1	1664.3	1586.2	1552.4	1560.8
37.5°	5282.3	2889.3	1510.2	1546.0	1584.1	1600.9	1588.3	1524.9	1505.9	1505.9	1510.2
40°	5434.4	2711.9	1478.5	1537.6	1531.3	1541.8	1448.9	1455.3	1455.3	1457.4	1446.8
42.5°	5569.6	2591.5	1453.1	1486.9	1497.5	1442.6	1385.5	1379.2	1394.0	1391.9	1383.4
45°	5618.1	2492.3	1417.3	1429.9	1438.4	1347.5	1320.0	1307.4	1324.2	1330.6	1339.0
47.5°	5432.3	2409.9	1377.1	1351.7	1334.8	1275.7	1239.8	1216.6	1237.7	1273.6	1282.0
50°	5193.6	2302.2	1313.7	1265.1	1229.2	1203.9	1178.6	1155.3	1170.1	1195.5	1189.1
52.5°	4840.9	2133.2	1233.5	1182.8	1121.6	1127.9	1104.7	1092.0	1100.4	1100.4	1094.1
55°	4338.2	1753.1	1098.3	1062.4	1011.7	1028.6	1032.8	1015.9	999.0	1013.8	1001.1
57.5°	2961.2	1237.7	980.0	980.0	929.3	952.5	950.4	910.3	870.2	874.4	866.0
60°	1712.9	986.3	904.0	895.5	842.7	861.8	866.0	838.5	777.3	781.5	773.0
62.5°	973.7	842.7	790.0	777.3	766.7	783.6	783.6	747.6	694.9	699.1	690.6
65°	828.0	781.5	705.4	703.3	699.1	703.3	686.4	648.4	601.9	582.9	585.1
67.5°	751.9	722.3	648.4	629.4	616.7	614.6	582.9	547.1	525.9	509.0	506.9
70°	659.0	635.7	580.8	555.5	542.8	513.3	481.6	458.3	428.7	420.3	428.7
72.5°	521.7	519.6	498.5	471.0	443.5	420.3	392.8	361.1	333.7	327.4	312.6
75°	361.1	365.4	369.6	365.4	342.1	312.6	280.9	255.6	221.8	202.8	198.6
77.5°	236.6	242.9	249.2	240.8	226.0	198.6	177.5	145.7	120.3	105.6	103.5
80°	173.2	181.7	185.9	179.6	162.6	141.5	118.2	92.9	73.9	61.2	61.2
82.5°	133.0	141.5	145.7	135.1	118.2	101.3	84.5	65.5	50.7	40.1	38.0
85°	46.5	44.3	52.8	54.9	65.5	61.2	50.7	38.0	29.6	21.1	19.0
87.5°	12.7	12.7	14.8	14.8	12.7	10.6	10.6	10.6	8.4	6.3	6.3
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)