

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: P270173

Luminaire Tested: **GWC-AF-01-LED-E1-T2-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-01-LED-E1-T2-7027
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5419.8 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G1

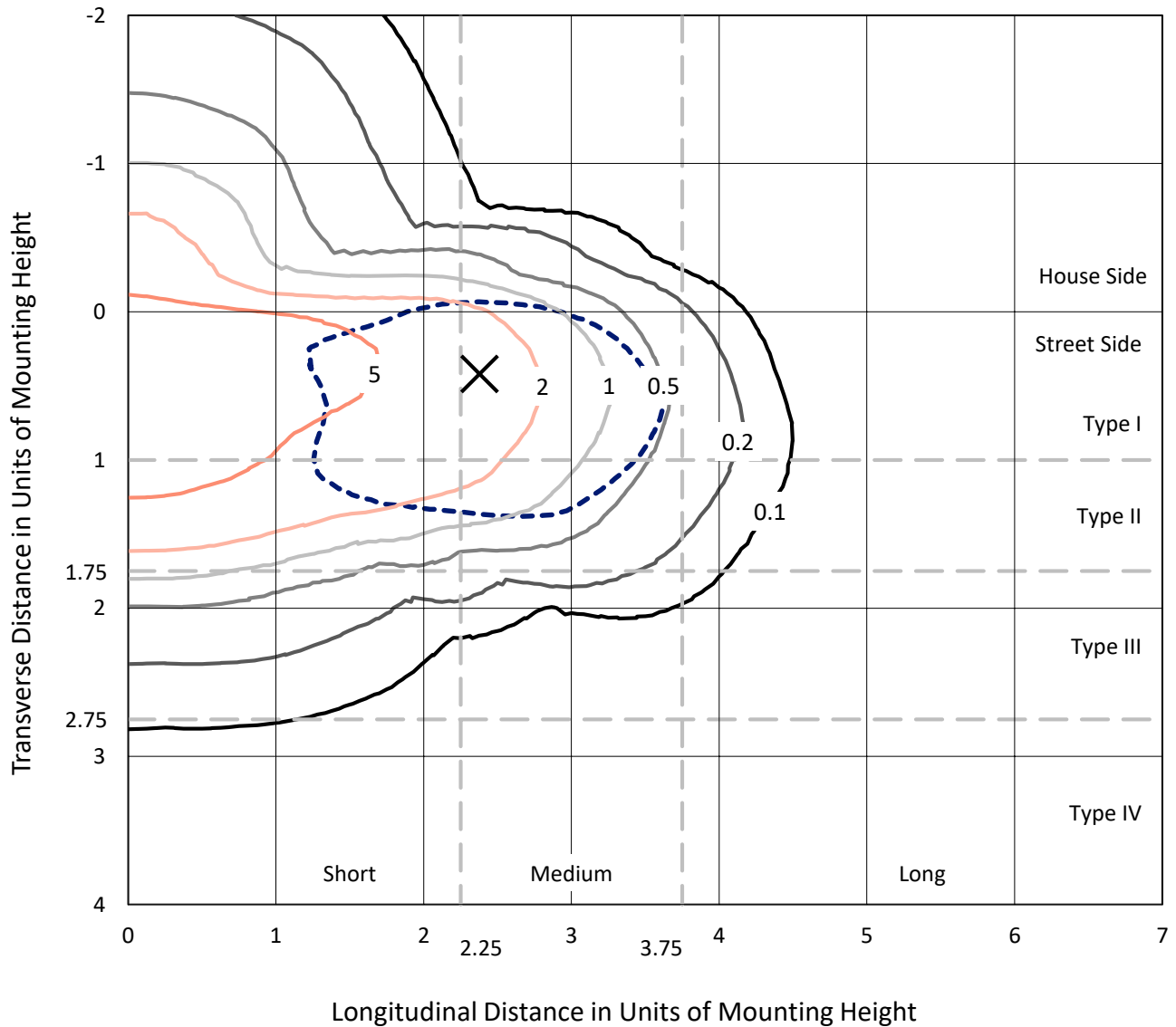
Input Watts (W): 59
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

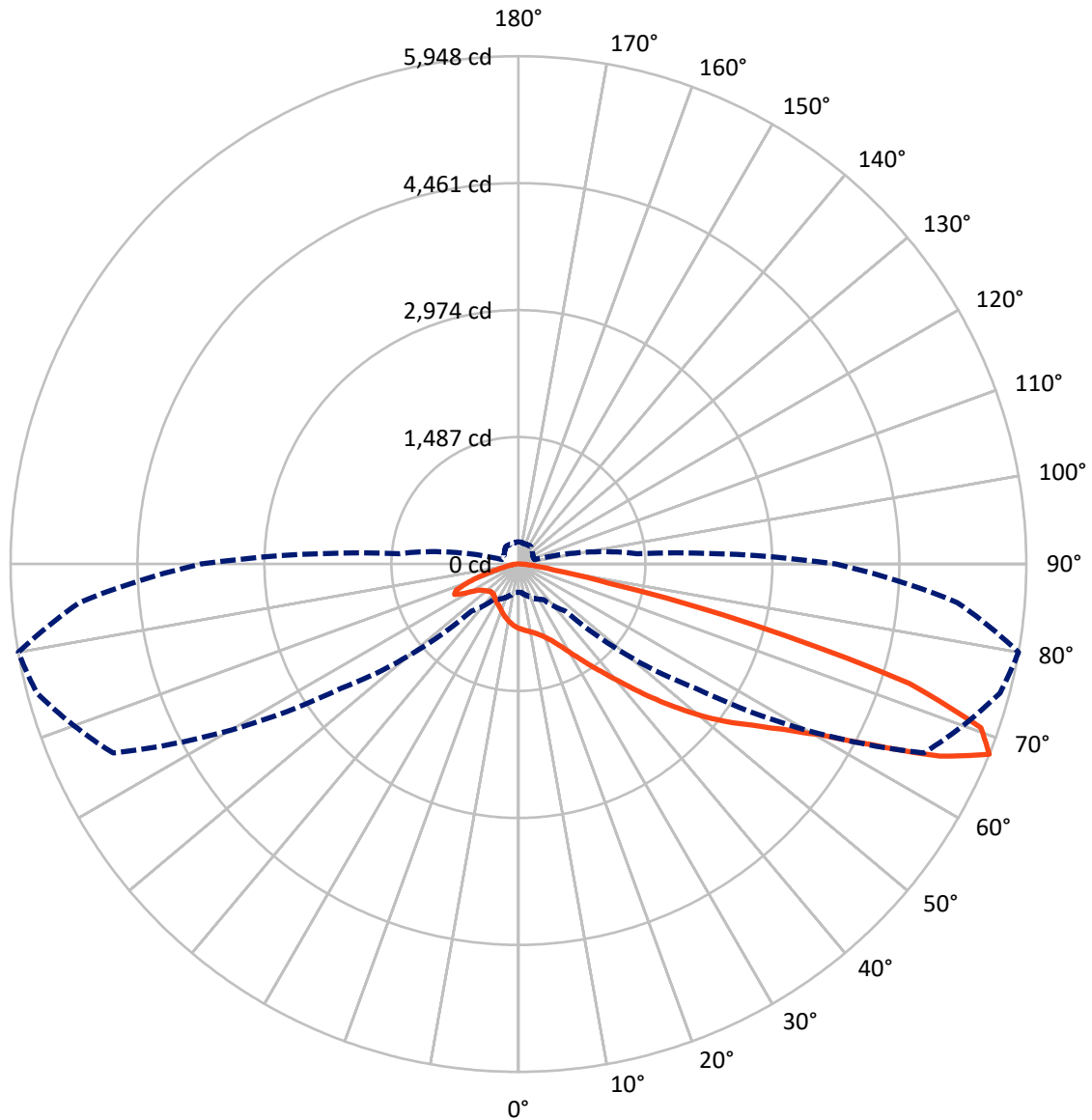
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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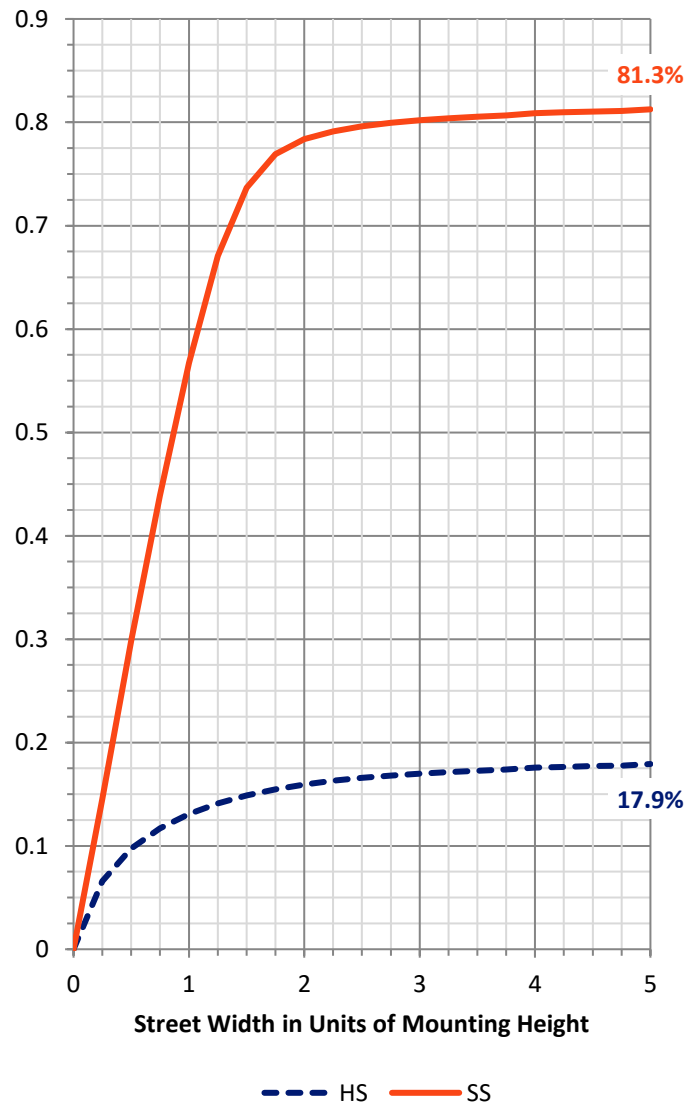
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	998.1	0.0	998.1
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	4421.6	0.0	4421.6
	% Fixture	81.6	0.0	81.6
Total	Lumens	5419.8	0.0	5419.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	1.3
10°-20°	200.1	3.7
20°-30°	331.2	6.1
30°-40°	541.7	10.0
40°-50°	874.7	16.1
50°-60°	1262.8	23.3
60°-70°	1393.6	25.7
70°-80°	642.4	11.9
80°-90°	103.9	1.9
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°	5419.8	100.0
0°-180°	5419.8	100.0



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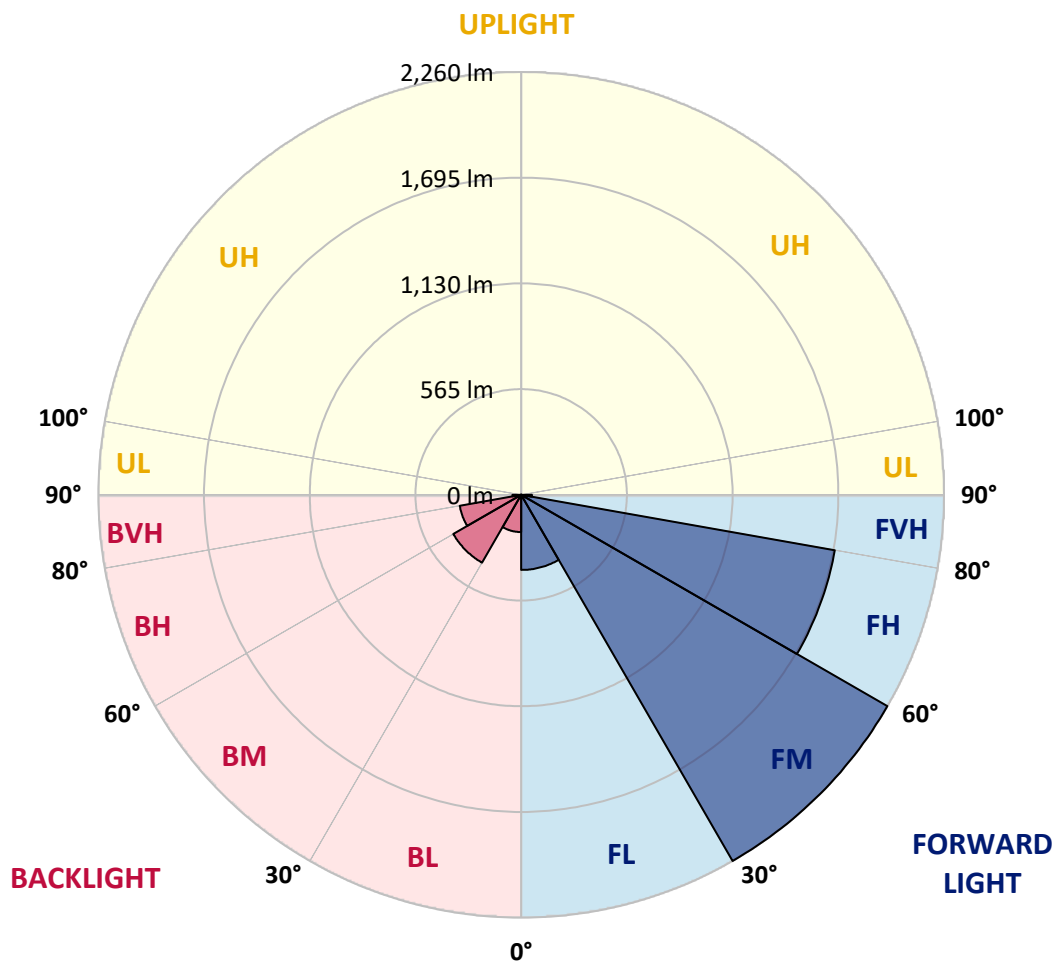
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	401.6	7.4			
FM (30°-60°)	2260.4	41.7			
FH (60°-80°)	1702.5	31.4			G1/1800
FVH (80°-90°)	57.1	1.1			G1/100
BL (0°-30°)	199.1	3.7	B1/500		
BM (30°-60°)	418.8	7.7	B1/1000		
BH (60°-80°)	333.4	6.2	B1/500		G1/500
BVH (80°-90°)	46.8	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	753.0	753.0	753.0	753.0	753.0	753.0	753.0	753.0	753.0	753.0	753.0
2.5°	823.7	818.9	819.7	818.4	814.4	807.3	799.9	786.2	772.2	764.6	758.8
5°	892.5	891.2	889.3	885.0	874.9	860.4	842.6	818.5	792.8	779.1	766.1
7.5°	943.9	943.2	940.9	938.1	928.3	910.9	883.9	849.7	812.2	793.6	773.3
10°	948.3	949.6	951.5	958.8	960.0	950.6	923.2	881.9	832.5	808.5	782.6
12.5°	912.0	915.0	922.1	940.5	960.0	971.4	957.4	915.5	856.3	827.1	794.3
15°	864.0	865.5	874.4	899.7	934.6	970.2	983.5	952.6	886.8	851.1	811.9
17.5°	843.4	844.1	850.3	867.1	899.7	950.3	998.1	992.8	924.5	881.1	833.5
20°	833.0	834.9	843.7	860.2	880.8	925.1	1000.4	1036.4	969.4	918.3	860.8
22.5°	862.6	861.8	865.0	873.3	890.6	917.3	998.6	1081.1	1026.5	966.3	896.2
25°	931.7	934.6	929.0	919.8	925.3	943.9	1007.2	1129.7	1098.0	1028.0	942.7
27.5°	1030.1	1027.2	1018.9	997.1	985.6	993.6	1035.6	1182.0	1186.8	1109.1	1004.0
30°	1128.5	1125.9	1118.0	1091.4	1067.8	1061.2	1090.5	1242.0	1292.8	1206.6	1079.3
32.5°	1230.3	1227.7	1220.2	1193.5	1165.2	1149.7	1168.7	1311.4	1417.5	1322.8	1167.8
35°	1356.0	1351.0	1335.2	1298.1	1270.4	1258.3	1267.1	1398.7	1561.7	1460.6	1275.5
37.5°	1474.2	1481.9	1465.9	1414.7	1378.7	1374.3	1384.3	1505.1	1717.0	1614.6	1398.9
40°	1593.0	1594.2	1579.8	1538.0	1500.9	1493.9	1518.8	1634.2	1900.3	1798.6	1549.1
42.5°	1715.7	1718.3	1694.1	1655.3	1628.1	1629.4	1657.7	1785.6	2110.5	2015.5	1722.1
45°	1861.1	1865.1	1838.4	1787.6	1762.8	1812.8	1801.0	1955.3	2341.1	2262.1	1920.5
47.5°	2013.1	2019.3	1999.0	1951.5	1920.5	1989.1	1944.3	2143.4	2589.3	2526.6	2138.5
50°	2096.1	2104.9	2124.8	2121.2	2114.5	2103.0	2104.1	2345.0	2845.1	2801.9	2362.6
52.5°	2051.5	2051.3	2123.4	2210.9	2304.2	2311.2	2298.9	2557.7	3084.2	3071.0	2573.7
55°	1847.8	1861.6	1970.7	2140.1	2395.2	2554.5	2590.8	2801.4	3319.0	3334.1	2788.0
57.5°	1508.3	1519.8	1667.1	1903.1	2272.5	2699.1	3006.0	3155.3	3581.5	3652.5	3073.2
60°	1023.0	1036.9	1192.9	1476.5	1942.1	2618.6	3401.2	3787.3	3895.8	4057.3	3473.4
62.5°	601.1	613.7	740.9	931.5	1367.4	2244.1	3574.5	4686.1	4395.0	4668.0	4084.0
65°	413.8	422.4	484.2	579.8	785.7	1511.5	3359.5	5306.7	5163.2	5424.7	4791.7
67.5°	333.0	332.0	381.1	446.1	505.8	779.4	2540.3	5236.6	5838.8	5947.9	5159.1
70°	274.3	273.3	306.6	360.5	404.2	438.9	1383.7	4419.0	5701.2	5745.4	4820.8
72.5°	229.4	230.5	251.9	291.9	331.7	330.5	608.2	3108.7	4485.0	4791.2	3842.9
75°	193.8	194.3	208.3	236.7	269.2	266.3	329.8	1684.1	2607.2	2820.3	2130.3
77.5°	164.8	165.4	174.5	190.3	213.4	212.4	240.7	727.5	1087.6	1074.3	728.6
80°	147.1	147.1	151.3	154.1	167.1	162.2	178.6	349.5	459.8	424.4	290.8
82.5°	115.3	115.8	141.9	140.9	131.5	125.5	125.5	206.0	243.6	225.1	170.1
85°	64.9	64.6	91.4	110.4	115.8	88.4	87.6	115.3	132.6	116.9	82.5
87.5°	27.8	28.2	42.4	49.0	65.7	54.9	54.2	59.5	67.6	58.4	38.2
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°	753.0	753.0	753.0	753.0	753.0	753.0	753.0	753.0	753.0	753.0	753.0
2.5°	753.1	746.3	731.1	712.1	695.1	683.9	673.6	659.0	659.9	649.7	642.2
5°	752.7	738.2	703.1	661.2	620.9	591.9	570.0	550.2	545.5	536.1	530.4
7.5°	753.1	729.8	670.6	603.5	553.6	516.9	498.1	487.7	485.4	482.1	482.4
10°	755.0	722.0	634.7	549.7	497.3	473.0	468.6	471.7	475.5	476.6	476.8
12.5°	759.3	715.1	595.5	501.7	462.1	454.6	462.4	473.3	480.6	483.9	483.7
15°	768.9	709.8	557.8	464.1	442.7	446.6	461.1	476.6	486.9	491.7	492.0
17.5°	779.4	701.9	519.2	435.1	428.2	438.5	456.2	474.5	487.2	492.5	493.6
20°	792.9	692.5	478.6	413.6	414.7	426.1	443.0	461.1	475.3	479.8	481.9
22.5°	810.9	682.1	443.1	396.0	399.1	408.0	421.0	436.8	449.1	451.2	453.0
25°	834.9	670.8	414.8	380.0	381.3	386.4	395.2	404.4	413.0	410.6	412.5
27.5°	867.1	661.2	393.8	365.3	362.8	364.0	368.5	371.4	375.9	369.3	370.1
30°	905.0	650.7	377.6	352.4	345.8	344.0	344.9	346.6	350.1	340.9	339.6
32.5°	949.1	638.2	362.3	341.3	332.0	328.2	328.7	333.0	346.3	340.7	337.9
35°	1000.4	624.1	346.3	329.0	322.6	317.2	316.7	330.0	369.8	366.4	363.6
37.5°	1060.3	609.9	330.3	315.1	315.7	309.7	307.8	323.1	374.4	360.7	358.9
40°	1136.6	602.5	316.7	300.5	307.1	306.3	302.5	310.4	344.5	319.6	316.5
42.5°	1231.0	603.5	306.6	284.8	297.0	305.6	299.7	299.9	312.3	293.4	290.5
45°	1347.6	616.1	299.3	272.1	285.5	304.7	298.5	294.4	295.4	285.5	284.0
47.5°	1483.8	642.0	294.4	261.8	274.5	301.8	298.2	292.7	290.3	284.9	283.7
50°	1635.1	679.6	290.5	251.9	264.7	297.0	298.5	291.1	288.4	286.3	285.5
52.5°	1783.7	722.5	284.9	243.4	256.9	291.1	299.3	289.6	286.6	284.9	284.1
55°	1949.4	776.1	276.4	236.2	250.5	283.7	299.3	287.1	284.0	284.1	284.0
57.5°	2173.2	862.9	266.3	230.0	242.8	274.5	294.4	284.5	280.5	280.7	281.0
60°	2523.0	1015.8	254.0	223.9	233.2	263.9	287.4	278.6	274.5	275.6	275.9
62.5°	3037.4	1240.2	238.1	214.8	223.0	252.5	277.8	271.1	267.1	269.8	269.8
65°	3572.2	1438.1	218.3	203.3	212.4	239.8	265.8	261.8	257.8	263.9	263.7
67.5°	3716.0	1393.9	198.5	190.8	201.7	226.1	251.3	249.2	247.0	257.8	257.3
70°	3301.1	1119.0	180.4	178.0	190.0	211.0	235.9	235.9	234.5	242.5	240.7
72.5°	2515.1	793.6	163.0	164.4	176.6	194.8	219.0	221.0	218.7	222.8	221.3
75°	1346.4	454.2	145.6	149.4	160.1	178.3	200.4	202.3	201.0	200.6	201.4
77.5°	447.4	222.1	127.5	133.4	142.7	161.2	180.9	183.9	180.6	180.1	179.8
80°	199.3	139.5	107.5	115.3	123.5	141.8	160.3	162.8	159.3	164.1	157.9
82.5°	128.1	91.7	86.1	94.7	102.8	122.2	139.9	140.3	137.1	159.3	135.9
85°	62.2	56.9	64.9	72.6	79.5	96.1	115.8	116.2	108.1	98.5	95.0
87.5°	30.9	33.1	43.2	50.1	53.5	65.8	84.4	82.7	79.2	72.0	66.5
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)