

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: P269017

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269017
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: GLEON-AF-01-LED-E1-T2-7027
Description: GALLEON AREA AND ROADWAY 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: 5313.8 lumens
Efficiency: N/A
Efficacy: 90.1 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 (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: 25 FT

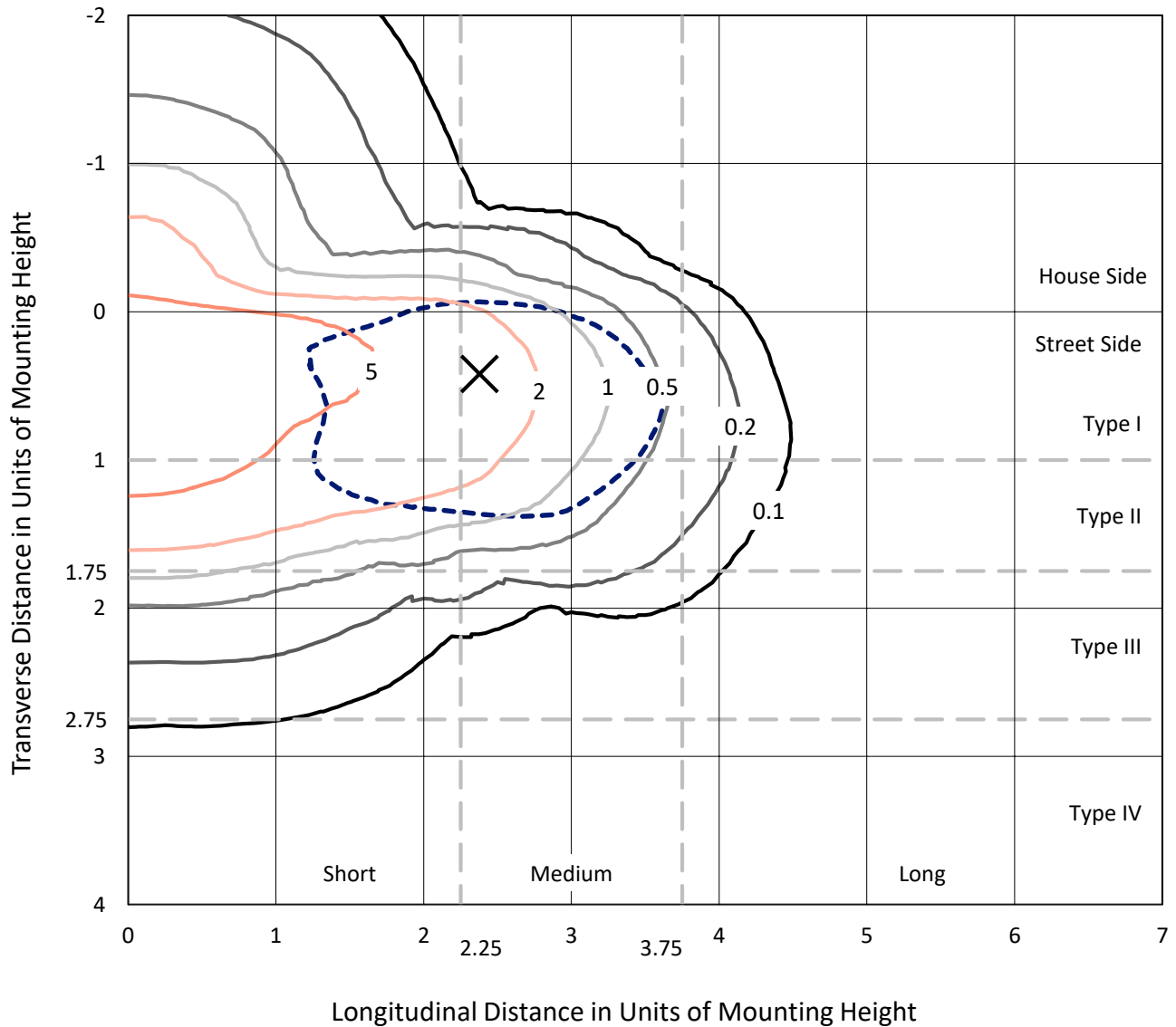


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

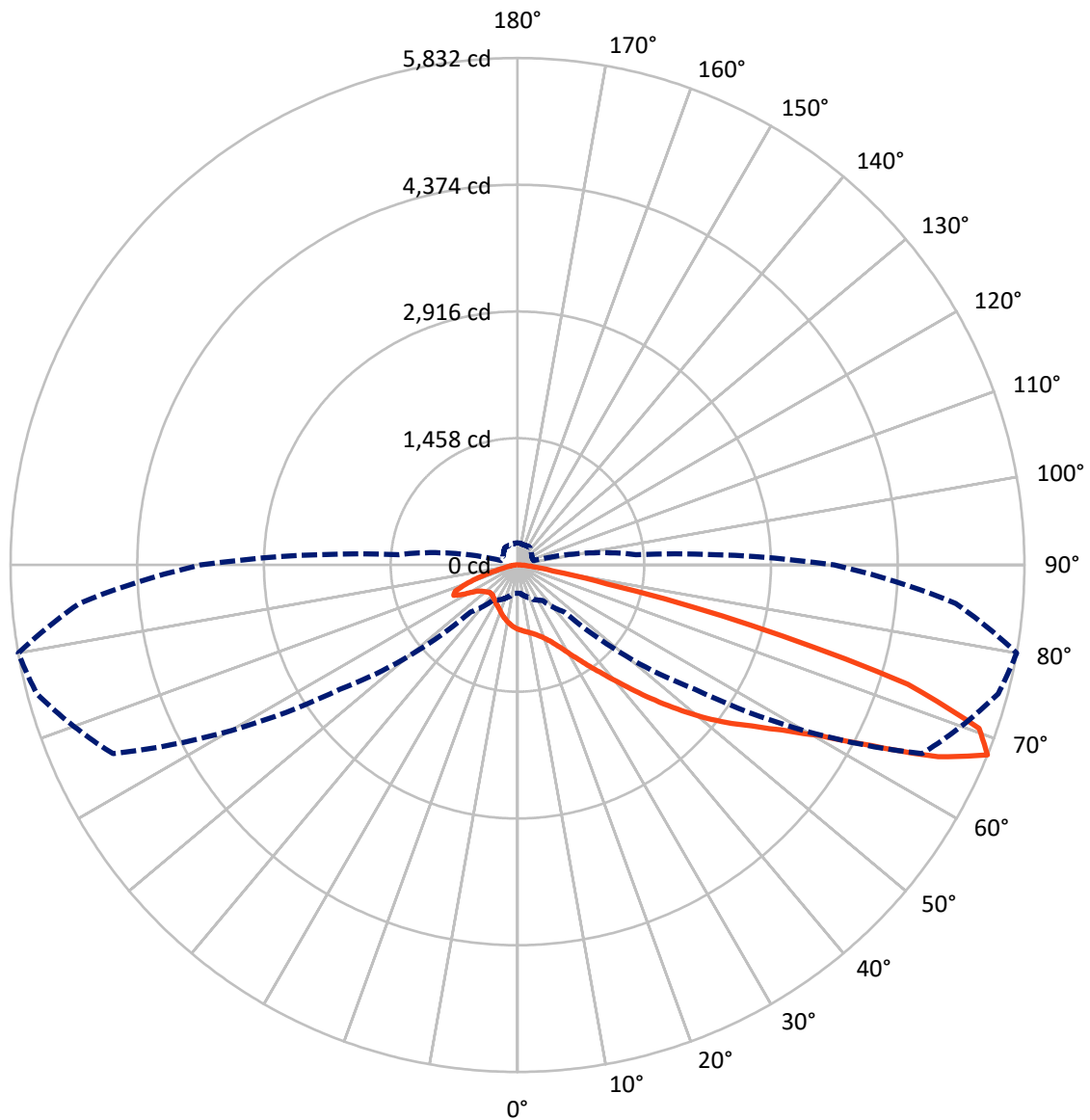


Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type II - Medium - Full Cutoff

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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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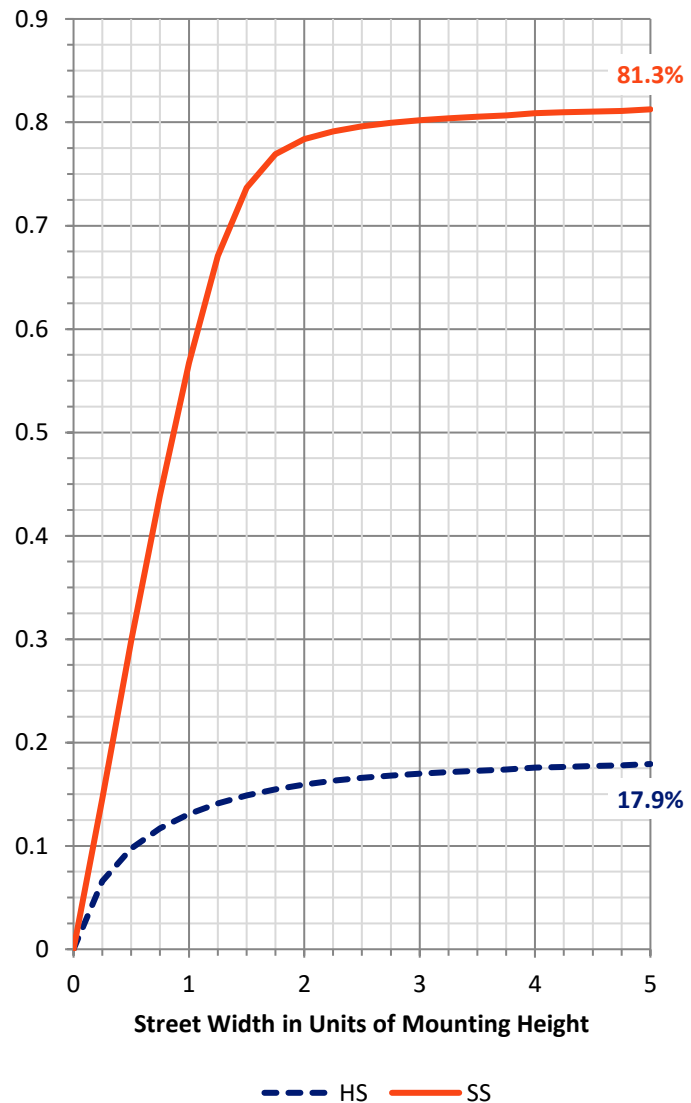
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	978.6	0.0	978.6
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	4335.2	0.0	4335.2
	% Fixture	81.6	0.0	81.6
Total	Lumens	5313.8	0.0	5313.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	1.3
10°-20°	196.2	3.7
20°-30°	324.7	6.1
30°-40°	531.1	10.0
40°-50°	857.6	16.1
50°-60°	1238.1	23.3
60°-70°	1366.3	25.7
70°-80°	629.8	11.9
80°-90°	101.9	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°	5313.8	100.0
0°-180°	5313.8	100.0



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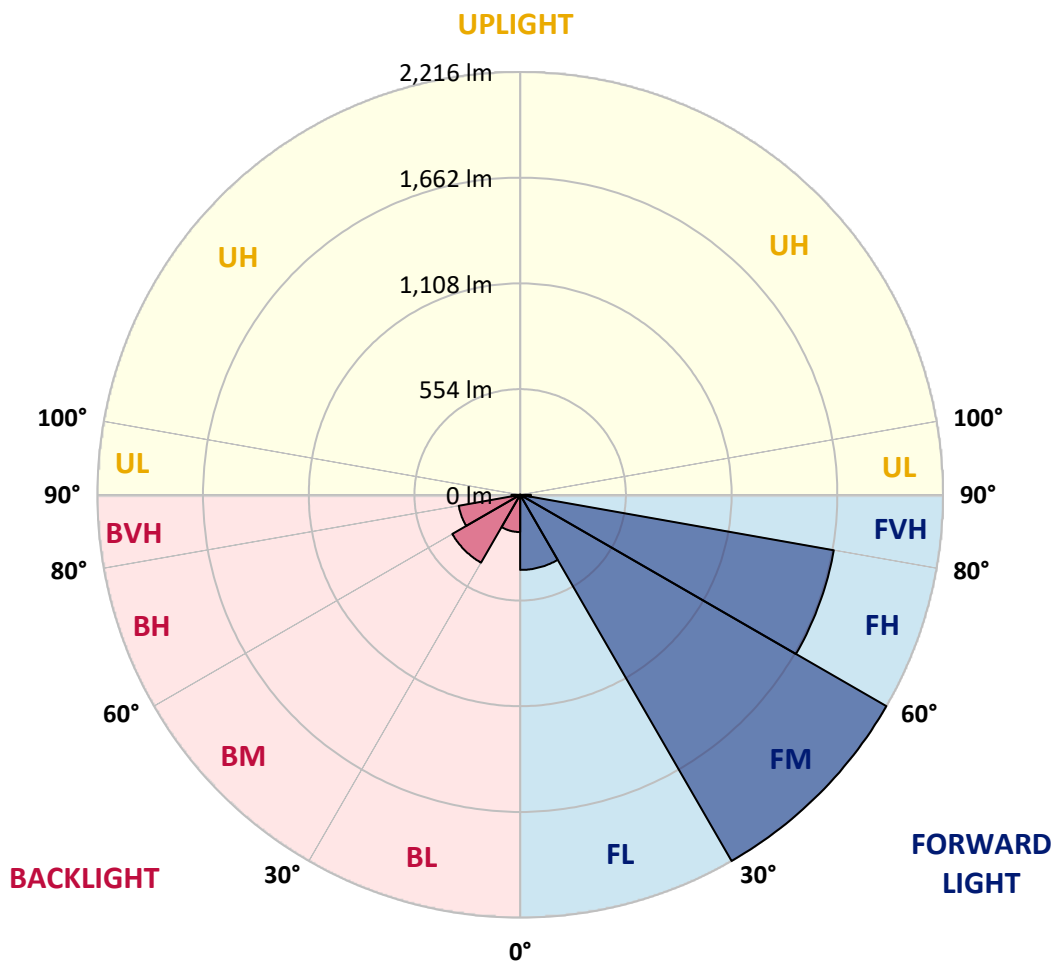
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	393.7	7.4			
FM	(30°-60°)	2216.2	41.7			
FH	(60°-80°)	1669.2	31.4			G1/1800
FVH	(80°-90°)	56.0	1.1			G1/100
BL	(0°-30°)	195.2	3.7	B1/500		
BM	(30°-60°)	410.6	7.7	B1/1000		
BH	(60°-80°)	326.9	6.2	B1/500		G1/500
BVH	(80°-90°)	45.9	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°	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2
2.5°	807.5	802.8	803.7	802.4	798.5	791.5	784.3	770.9	757.1	749.7	743.9
5°	875.0	873.7	872.0	867.8	857.8	843.7	826.1	802.5	777.3	763.9	751.1
7.5°	925.6	924.7	922.4	919.8	910.2	893.2	866.7	833.2	796.3	778.0	758.1
10°	929.7	931.1	932.9	939.9	941.2	932.1	905.1	864.6	816.2	792.7	767.2
12.5°	894.2	897.0	904.1	922.1	941.2	952.6	938.5	897.5	839.5	811.0	778.8
15°	847.0	848.5	857.3	882.1	916.5	951.1	964.2	933.9	869.6	834.4	796.1
17.5°	826.9	827.7	833.6	850.2	882.1	931.8	978.7	973.5	906.4	863.8	817.3
20°	816.6	818.5	827.2	843.4	863.5	907.0	980.7	1016.1	950.3	900.5	843.9
22.5°	845.8	844.9	848.1	856.3	873.2	899.4	979.2	1060.0	1006.5	947.5	878.7
25°	913.4	916.5	910.9	901.7	907.2	925.6	987.5	1107.6	1076.4	1008.0	924.3
27.5°	1010.1	1007.2	999.0	977.5	966.3	974.2	1015.3	1159.0	1163.6	1087.5	984.5
30°	1106.4	1103.9	1096.1	1069.9	1047.0	1040.3	1069.2	1217.7	1267.5	1183.0	1058.2
32.5°	1206.2	1203.5	1196.4	1170.1	1142.5	1127.3	1145.8	1285.7	1389.9	1297.1	1145.0
35°	1329.4	1324.6	1309.0	1272.7	1245.5	1233.7	1242.4	1371.4	1531.2	1432.0	1250.4
37.5°	1445.4	1452.9	1437.2	1387.1	1351.7	1347.5	1357.2	1475.6	1683.5	1583.0	1371.5
40°	1561.8	1563.1	1548.9	1507.8	1471.6	1464.6	1489.0	1602.2	1863.2	1763.5	1518.9
42.5°	1682.0	1684.7	1660.8	1623.0	1596.3	1597.5	1625.4	1750.6	2069.2	1976.1	1688.4
45°	1824.6	1828.6	1802.4	1752.8	1728.3	1777.2	1765.8	1917.1	2295.3	2217.8	1882.9
47.5°	1973.8	1979.8	1959.9	1913.3	1882.9	1950.2	1906.3	2101.4	2538.6	2477.0	2096.7
50°	2055.1	2063.8	2083.1	2079.8	2073.2	2061.9	2063.0	2299.2	2789.4	2747.0	2316.5
52.5°	2011.5	2011.1	2081.8	2167.6	2259.1	2266.0	2253.9	2507.7	3023.9	3010.9	2523.3
55°	1811.6	1825.1	1932.2	2098.4	2348.3	2504.6	2540.1	2746.6	3254.0	3268.9	2733.5
57.5°	1478.8	1490.1	1634.5	1866.0	2228.1	2646.3	2947.2	3093.7	3511.5	3581.1	3013.2
60°	1003.0	1016.6	1169.7	1447.7	1904.1	2567.4	3334.6	3713.1	3819.7	3977.9	3405.6
62.5°	589.4	601.7	726.5	913.2	1340.7	2200.3	3504.6	4594.6	4309.1	4576.7	4004.0
65°	405.8	414.1	474.8	568.4	770.3	1481.9	3293.7	5203.0	5062.2	5318.5	4698.0
67.5°	326.4	325.5	373.5	437.4	496.0	764.1	2490.7	5134.2	5724.5	5831.5	5058.3
70°	269.0	267.9	300.6	353.5	396.3	430.4	1356.7	4332.6	5589.7	5633.0	4726.6
72.5°	224.9	226.1	246.9	286.2	325.1	324.1	596.1	3047.9	4397.3	4697.5	3767.9
75°	189.9	190.4	204.4	232.0	263.9	261.0	323.3	1651.3	2556.0	2765.2	2088.6
77.5°	161.7	162.2	171.0	186.5	209.2	208.2	236.0	713.3	1066.3	1053.3	714.4
80°	144.2	144.2	148.3	151.3	163.9	159.1	175.0	342.8	450.7	416.3	285.1
82.5°	112.9	113.5	139.1	138.1	128.9	123.0	123.0	201.9	238.8	220.9	166.8
85°	63.6	63.3	89.7	108.2	113.5	86.5	85.8	112.9	130.1	114.5	80.8
87.5°	27.2	27.8	41.6	48.1	64.4	53.9	53.1	58.3	66.1	57.3	37.4
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°	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2
2.5°	738.4	731.7	716.8	698.3	681.5	670.5	660.6	646.2	646.9	637.0	629.6
5°	738.0	723.9	689.3	648.2	608.7	580.2	558.7	539.4	534.8	525.6	520.1
7.5°	738.4	715.5	657.4	591.8	542.8	506.7	488.4	478.2	475.8	472.7	473.0
10°	740.4	707.9	622.3	539.0	487.6	463.9	459.4	462.4	466.2	467.2	467.5
12.5°	744.5	701.0	583.9	491.8	453.0	445.7	453.4	464.1	471.2	474.6	474.2
15°	753.9	695.8	547.0	454.9	434.1	438.0	452.0	467.2	477.4	482.1	482.4
17.5°	764.1	688.3	509.1	426.6	419.9	429.7	447.4	465.1	477.7	482.8	483.9
20°	777.5	678.8	469.4	405.5	406.6	417.8	434.2	452.0	466.0	470.4	472.5
22.5°	795.0	668.7	434.5	388.2	391.3	399.9	412.9	428.2	440.3	442.3	444.2
25°	818.5	657.6	406.8	372.4	373.9	378.7	387.3	396.6	405.0	402.6	404.4
27.5°	850.2	648.2	386.1	358.2	355.8	356.8	361.3	364.2	368.6	362.0	362.8
30°	887.3	638.1	370.1	345.6	339.0	337.3	338.2	339.7	343.2	334.3	333.0
32.5°	930.6	625.8	355.3	334.6	325.5	321.8	322.3	326.4	339.6	334.1	331.1
35°	980.7	611.8	339.6	322.5	316.3	311.1	310.5	323.6	362.6	359.2	356.5
37.5°	1039.6	598.0	323.8	308.9	309.5	303.6	301.9	316.8	367.0	353.8	351.9
40°	1114.3	590.6	310.5	294.6	301.1	300.4	296.7	304.3	337.8	313.4	310.3
42.5°	1207.1	591.8	300.6	279.2	291.2	299.6	293.7	294.0	306.1	287.7	284.9
45°	1321.3	604.0	293.6	266.8	279.9	298.7	292.8	288.5	289.7	279.9	278.4
47.5°	1454.7	629.4	288.5	256.6	269.2	295.9	292.5	287.0	284.7	279.5	278.0
50°	1603.0	666.4	284.9	246.9	259.5	291.2	292.8	285.4	282.7	280.7	279.9
52.5°	1748.8	708.5	279.5	238.6	252.0	285.4	293.6	283.9	281.0	279.5	278.7
55°	1911.2	761.0	271.0	231.6	245.6	278.0	293.6	281.4	278.4	278.7	278.4
57.5°	2130.7	846.1	261.0	225.6	238.1	269.2	288.5	278.8	274.9	275.2	275.5
60°	2473.8	996.0	249.0	219.5	228.7	258.7	281.8	273.2	269.2	270.2	270.5
62.5°	2978.1	1215.9	233.3	210.7	218.6	247.5	272.4	265.8	261.9	264.6	264.6
65°	3502.3	1410.0	213.9	199.3	208.2	235.1	260.6	256.6	252.8	258.7	258.4
67.5°	3643.3	1366.6	194.7	187.0	197.7	221.6	246.4	244.2	242.3	252.8	252.2
70°	3236.6	1097.1	176.8	174.5	186.3	206.9	231.3	231.3	230.0	237.8	236.0
72.5°	2465.8	778.0	159.9	161.2	173.2	191.0	214.8	216.6	214.5	218.5	216.9
75°	1320.0	445.2	142.8	146.6	156.9	174.7	196.5	198.3	197.0	196.6	197.4
77.5°	438.7	217.7	125.0	130.9	140.0	158.0	177.3	180.2	177.1	176.5	176.2
80°	195.4	136.8	105.5	112.9	121.1	138.9	157.3	159.5	156.1	160.8	154.9
82.5°	125.6	90.0	84.5	92.9	100.7	119.8	137.1	137.6	134.4	156.1	133.2
85°	60.9	55.8	63.6	71.1	78.0	94.2	113.5	113.7	105.9	96.6	93.2
87.5°	30.4	32.5	42.4	49.1	52.6	64.6	82.6	81.0	77.8	70.6	65.1
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)