

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: P298858

Luminaire Tested: **GLNA-AF-01-LED-E1-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298858
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: GLNA-AF-01-LED-E1-T2
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6095 lumens
Efficiency: N/A
Efficacy: 103.3 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 - G2

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

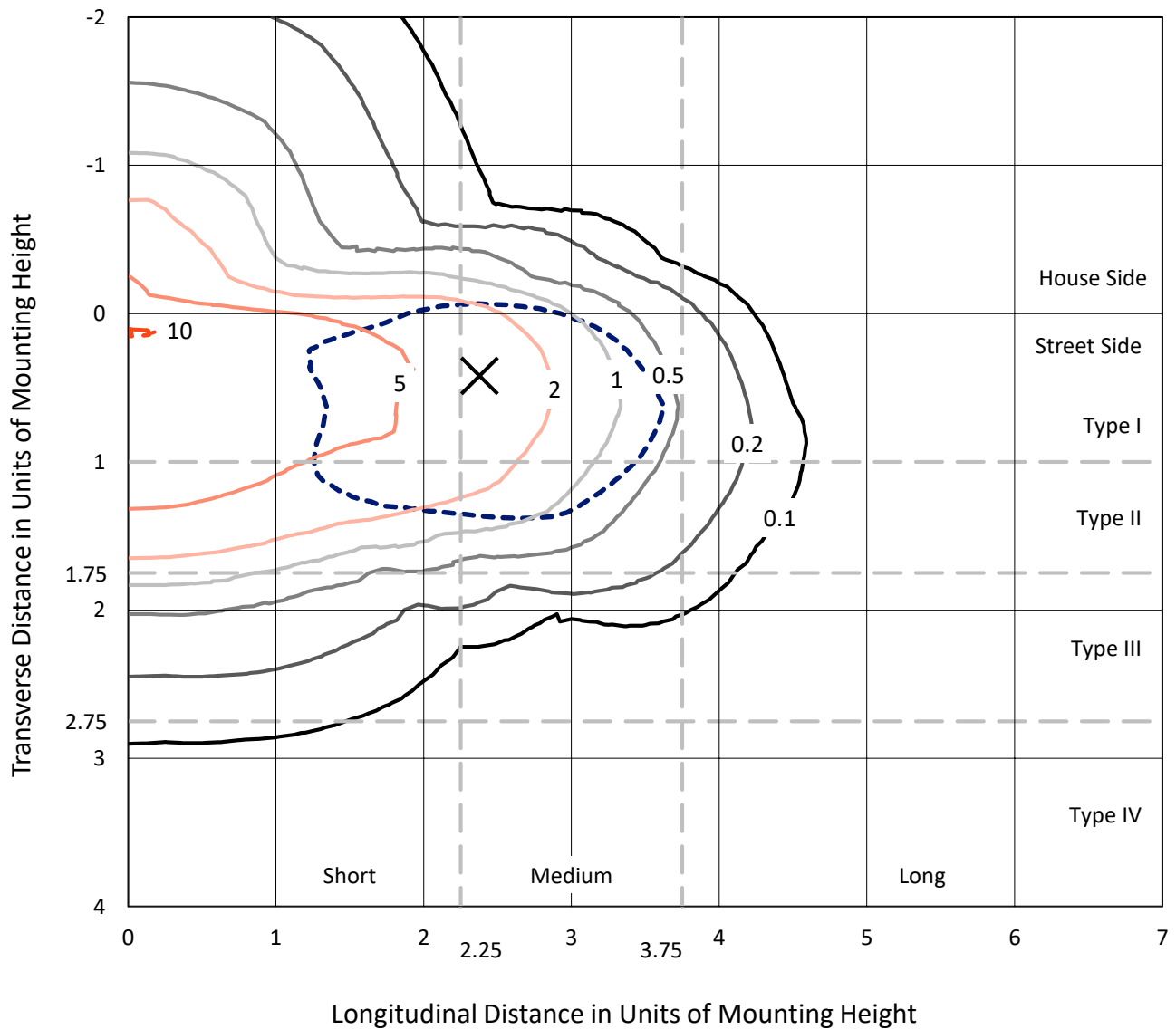


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

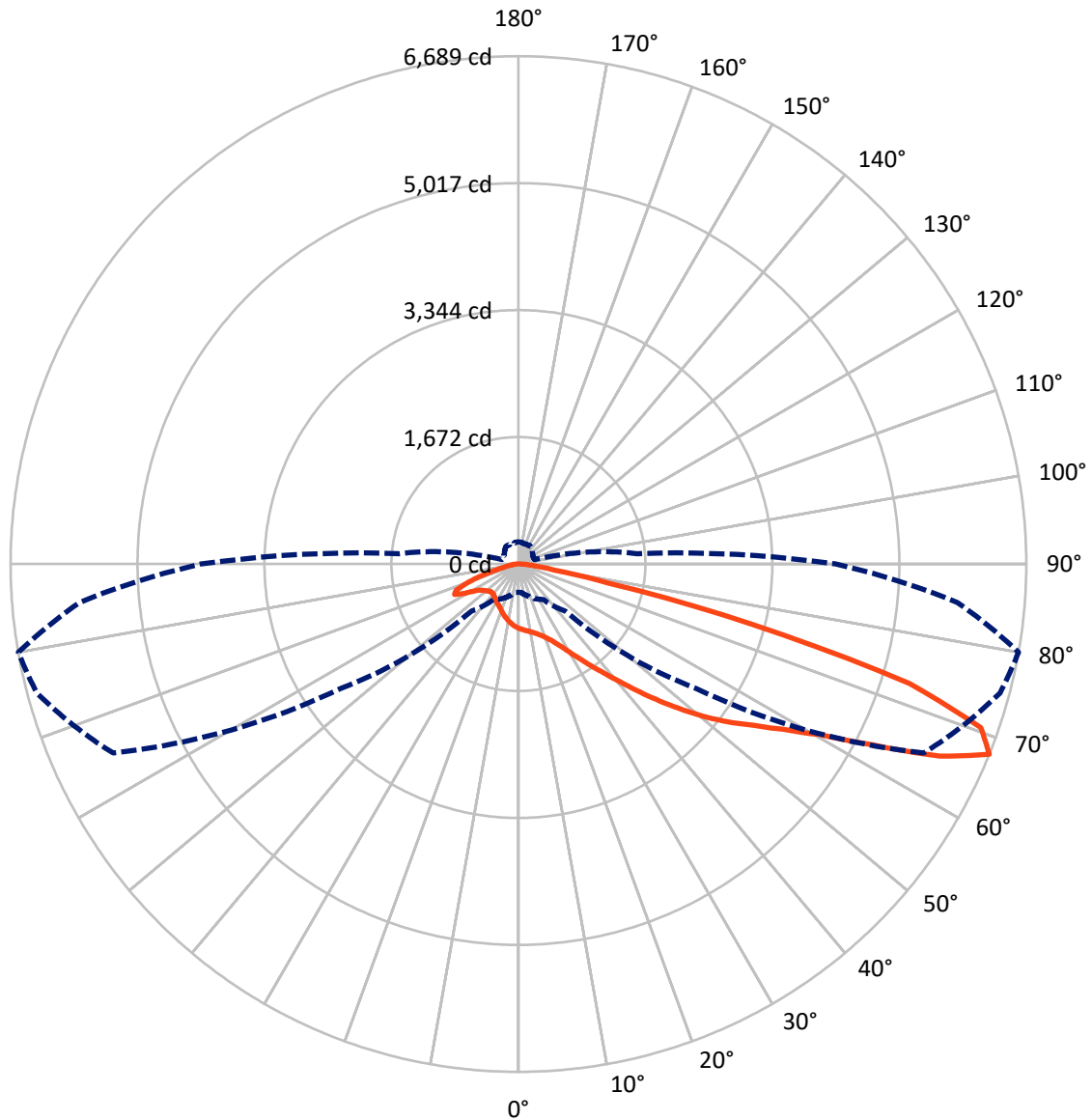


Based on 10 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Medium - Full Cutoff

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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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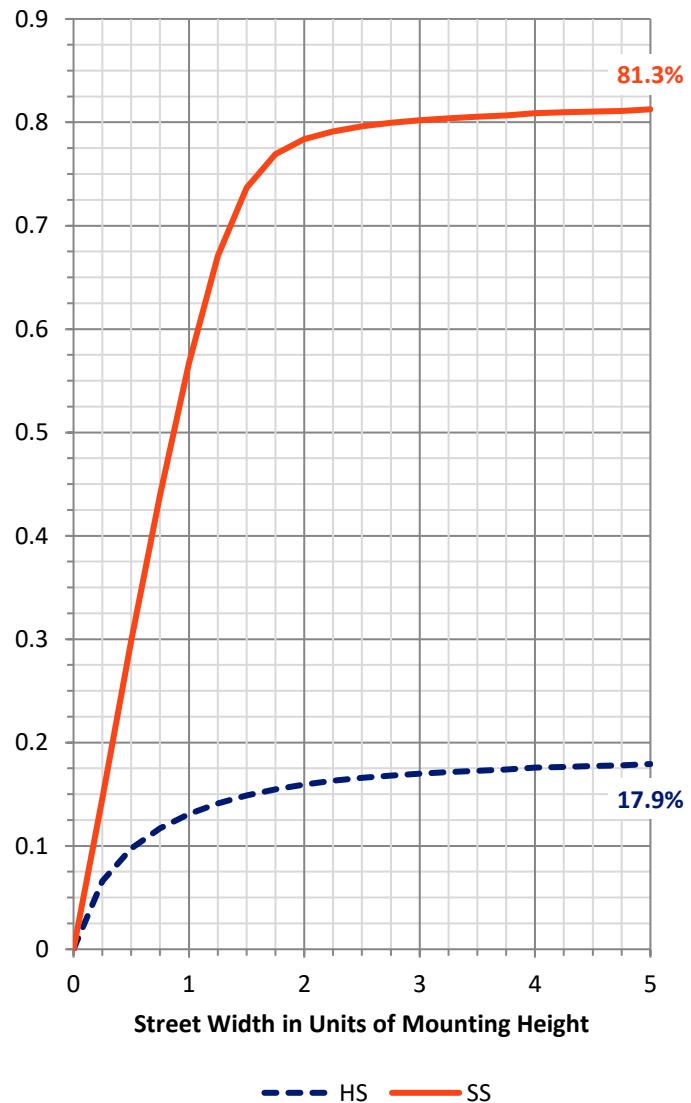
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1122.5	0.0	1122.5
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	4972.5	0.0	4972.5
	% Fixture	81.6	0.0	81.6
Total	Lumens	6095.0	0.0	6095.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	1.3
10°-20°	225.0	3.7
20°-30°	372.4	6.1
30°-40°	609.2	10.0
40°-50°	983.7	16.1
50°-60°	1420.1	23.3
60°-70°	1567.2	25.7
70°-80°	722.4	11.9
80°-90°	116.8	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°	6095.0	100.0
0°-180°	6095.0	100.0

Coefficient of Utilization



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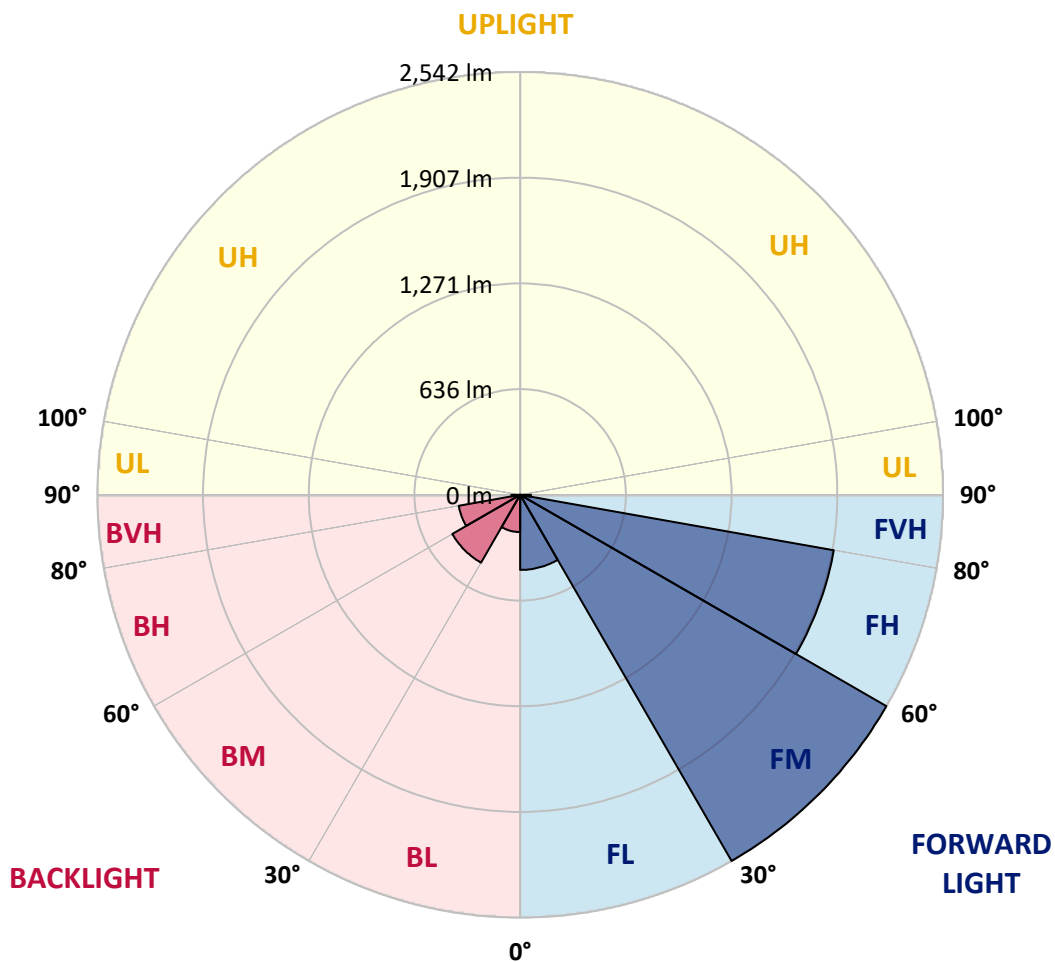
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	451.6	7.4			
FM (30°-60°)	2542.1	41.7			
FH (60°-80°)	1914.6	31.4			G2/5000
FVH (80°-90°)	64.2	1.1			G1/100
BL (0°-30°)	223.9	3.7	B1/500		
BM (30°-60°)	471.0	7.7	B1/1000		
BH (60°-80°)	375.0	6.2	B1/500		G1/500
BVH (80°-90°)	52.6	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8
2.5°	926.3	920.9	921.8	920.3	915.8	908.0	899.6	884.3	868.4	860.0	853.4
5°	1003.7	1002.2	1000.1	995.3	983.9	967.7	947.6	920.6	891.5	876.2	861.5
7.5°	1061.6	1060.7	1058.0	1055.0	1043.9	1024.4	994.1	955.7	913.4	892.4	869.6
10°	1066.4	1067.9	1070.0	1078.1	1079.6	1069.1	1038.2	991.7	936.2	909.2	880.1
12.5°	1025.6	1028.9	1037.0	1057.7	1079.6	1092.5	1076.6	1029.5	962.9	930.2	893.3
15°	971.6	973.4	983.3	1011.8	1051.1	1091.0	1106.0	1071.2	997.4	957.2	913.1
17.5°	948.5	949.4	956.3	975.2	1011.8	1068.8	1122.5	1116.5	1039.7	990.8	937.4
20°	936.8	938.9	948.8	967.4	990.5	1040.3	1124.9	1165.4	1090.1	1032.8	968.0
22.5°	970.1	969.2	972.8	982.1	1001.6	1031.6	1123.1	1215.8	1154.3	1086.8	1007.9
25°	1047.8	1051.1	1044.8	1034.3	1040.6	1061.6	1132.7	1270.5	1234.7	1156.1	1060.1
27.5°	1158.5	1155.2	1145.9	1121.3	1108.4	1117.4	1164.5	1329.3	1334.7	1247.3	1129.1
30°	1269.0	1266.3	1257.3	1227.2	1200.8	1193.3	1226.3	1396.8	1453.8	1356.9	1213.7
32.5°	1383.6	1380.6	1372.2	1342.2	1310.4	1293.0	1314.3	1474.8	1594.2	1487.7	1313.4
35°	1524.9	1519.2	1501.5	1459.8	1428.6	1415.1	1425.0	1572.9	1756.3	1642.5	1434.3
37.5°	1657.8	1666.5	1648.5	1590.9	1550.4	1545.6	1556.7	1692.6	1930.9	1815.7	1573.2
40°	1791.4	1792.9	1776.7	1729.5	1687.8	1680.0	1707.9	1837.9	2137.0	2022.7	1742.1
42.5°	1929.4	1932.4	1905.1	1861.6	1831.0	1832.5	1864.3	2008.0	2373.5	2266.7	1936.6
45°	2092.9	2097.4	2067.4	2010.4	1982.5	2038.6	2025.4	2198.8	2632.7	2543.9	2159.8
47.5°	2264.0	2270.9	2248.0	2194.6	2159.8	2236.9	2186.5	2410.4	2911.8	2841.3	2405.0
50°	2357.3	2367.2	2389.4	2385.5	2378.0	2365.1	2366.3	2637.2	3199.5	3150.9	2657.0
52.5°	2307.2	2306.9	2387.9	2486.3	2591.3	2599.1	2585.3	2876.4	3468.4	3453.7	2894.4
55°	2077.9	2093.5	2216.2	2406.8	2693.6	2872.8	2913.6	3150.3	3732.4	3749.5	3135.3
57.5°	1696.2	1709.1	1874.8	2140.3	2555.6	3035.4	3380.5	3548.5	4027.7	4107.5	3456.1
60°	1150.4	1166.0	1341.6	1660.5	2184.1	2944.8	3824.9	4259.1	4381.2	4562.7	3906.2
62.5°	676.0	690.1	833.3	1047.5	1537.8	2523.8	4019.9	5270.0	4942.6	5249.5	4592.7
65°	465.4	475.0	544.6	652.0	883.7	1699.8	3778.1	5967.9	5806.5	6100.5	5388.8
67.5°	374.5	373.3	428.5	501.7	568.9	876.5	2856.9	5889.0	6566.2	6688.9	5802.0
70°	308.5	307.3	344.8	405.4	454.6	493.6	1556.1	4969.6	6411.4	6461.2	5421.5
72.5°	258.1	259.3	283.3	328.3	373.0	371.8	683.8	3496.0	5043.7	5388.2	4321.8
75°	217.8	218.4	234.3	266.2	302.8	299.5	370.9	1894.0	2931.9	3171.6	2395.7
77.5°	185.4	186.0	196.2	213.9	240.0	238.8	270.7	818.3	1223.0	1208.0	819.5
80°	165.3	165.3	170.1	173.4	187.8	182.4	200.7	393.1	517.0	477.4	327.1
82.5°	129.6	130.2	159.6	158.4	147.9	141.0	141.0	231.6	274.0	253.3	191.4
85°	72.9	72.6	102.9	124.2	130.2	99.3	98.4	129.6	149.1	131.4	92.7
87.5°	31.2	31.8	47.7	55.2	73.8	61.8	60.9	66.9	75.9	65.7	42.9
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°	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8
2.5°	847.1	839.3	822.2	800.9	781.7	769.1	757.7	741.1	742.0	730.6	722.2
5°	846.5	830.3	790.7	743.5	698.2	665.5	640.9	618.7	613.3	602.8	596.5
7.5°	847.1	820.7	754.1	678.7	622.6	581.2	560.2	548.5	545.8	542.2	542.5
10°	849.2	812.0	713.8	618.1	559.3	532.0	526.9	530.5	534.7	535.9	536.2
12.5°	854.0	804.2	669.7	564.1	519.7	511.3	520.0	532.3	540.4	544.3	544.0
15°	864.8	798.2	627.4	521.8	497.8	502.3	518.5	535.9	547.6	553.0	553.3
17.5°	876.5	789.5	583.9	489.4	481.6	493.0	513.1	533.5	547.9	553.9	555.1
20°	891.8	778.7	538.3	465.1	466.3	479.2	498.1	518.5	534.4	539.5	541.9
22.5°	911.9	767.0	498.4	445.3	448.9	458.8	473.5	491.2	505.0	507.4	509.5
25°	938.9	754.4	466.6	427.3	428.8	434.5	444.4	454.9	464.5	461.8	463.9
27.5°	975.2	743.5	442.9	410.8	408.1	409.3	414.4	417.7	422.8	415.3	416.2
30°	1017.8	731.8	424.6	396.4	388.9	386.8	388.0	389.8	393.7	383.5	382.0
32.5°	1067.3	717.7	407.5	383.8	373.3	369.1	369.7	374.5	389.5	383.2	379.9
35°	1124.9	701.8	389.5	370.0	362.8	356.8	356.2	371.2	415.9	412.0	409.0
37.5°	1192.4	685.9	371.5	354.4	355.0	348.4	346.3	363.4	421.0	405.7	403.6
40°	1278.3	677.5	356.2	337.9	345.4	344.5	340.3	349.0	387.4	359.5	355.9
42.5°	1384.5	678.7	344.8	320.2	334.0	343.6	337.0	337.3	351.1	330.1	326.8
45°	1515.6	692.8	336.7	306.1	321.1	342.7	335.8	331.0	332.2	321.1	319.3
47.5°	1668.6	721.9	331.0	294.4	308.8	339.4	335.5	329.2	326.5	320.5	319.0
50°	1838.8	764.3	326.8	283.3	297.7	334.0	335.8	327.4	324.4	322.0	321.1
52.5°	2005.9	812.6	320.5	273.7	289.0	327.4	336.7	325.6	322.3	320.5	319.6
55°	2192.2	872.9	310.9	265.6	281.8	319.0	336.7	322.9	319.3	319.6	319.3
57.5°	2444.0	970.4	299.5	258.7	273.1	308.8	331.0	319.9	315.4	315.7	316.0
60°	2837.4	1142.3	285.7	251.8	262.3	296.8	323.2	313.3	308.8	310.0	310.3
62.5°	3415.9	1394.7	267.7	241.5	250.9	283.9	312.4	304.9	300.4	303.4	303.4
65°	4017.2	1617.3	245.4	228.6	238.8	269.8	298.9	294.4	289.9	296.8	296.5
67.5°	4178.9	1567.5	223.2	214.5	226.8	254.2	282.7	280.3	277.9	289.9	289.3
70°	3712.3	1258.5	202.8	200.1	213.6	237.3	265.3	265.3	263.8	272.8	270.7
72.5°	2828.4	892.4	183.3	184.8	198.6	219.0	246.3	248.4	246.0	250.6	248.7
75°	1514.1	510.7	163.8	168.0	180.0	200.4	225.3	227.4	225.9	225.6	226.5
77.5°	503.2	249.6	143.4	150.0	160.5	181.2	203.4	206.7	203.1	202.5	202.2
80°	224.1	156.9	120.9	129.6	138.9	159.3	180.3	183.0	179.1	184.5	177.6
82.5°	144.0	103.2	96.9	106.5	115.5	137.4	157.2	157.8	154.2	179.1	152.7
85°	69.9	63.9	72.9	81.6	89.4	108.0	130.2	130.5	121.5	110.7	106.8
87.5°	34.8	37.2	48.6	56.4	60.3	74.1	94.8	93.0	89.1	81.0	74.7
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)