

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: P298983

Luminaire Tested: **GLNA-AF-02-LED-E1-T2-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298983
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-02-LED-E1-T2-8030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6402.7 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

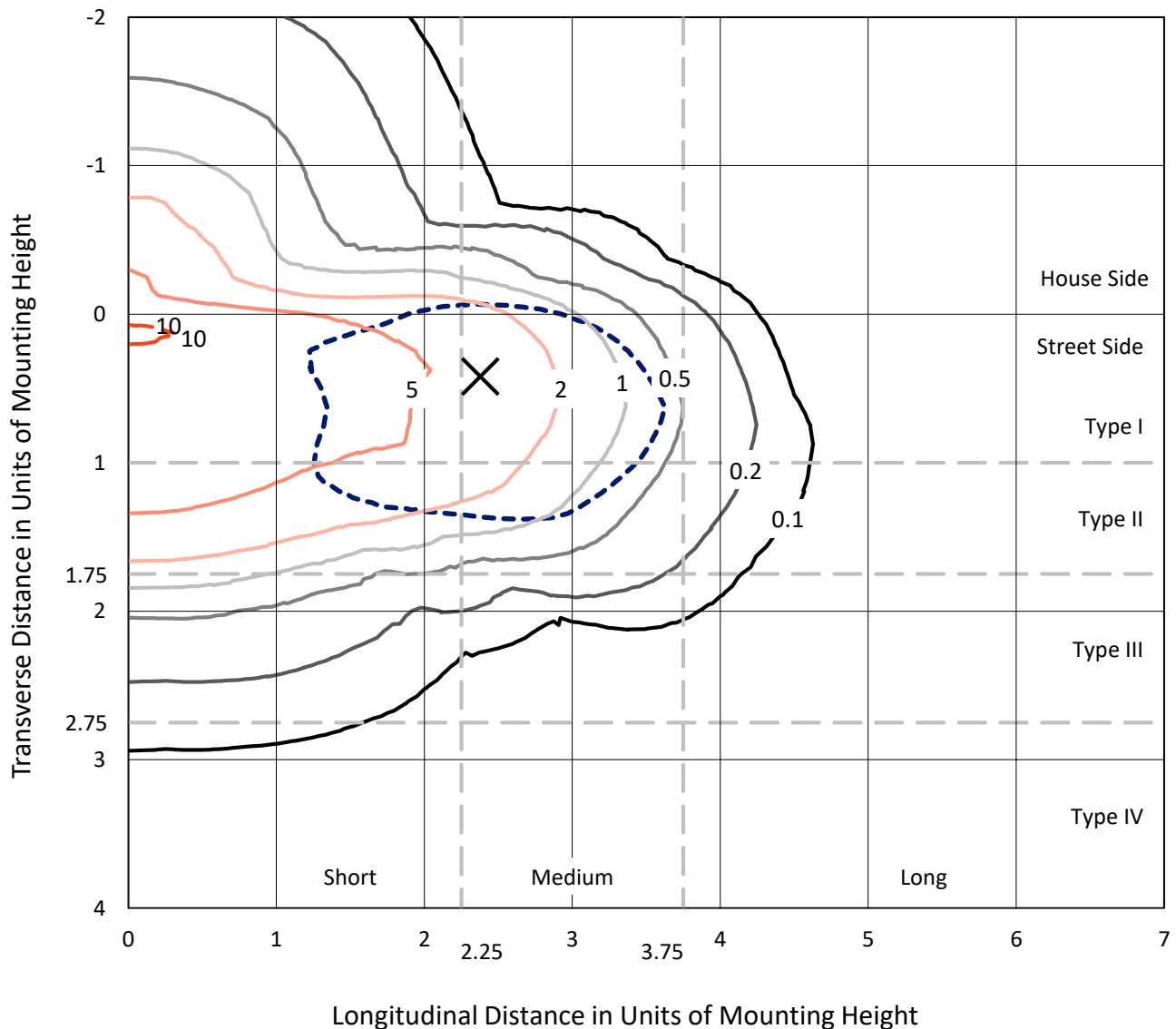


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

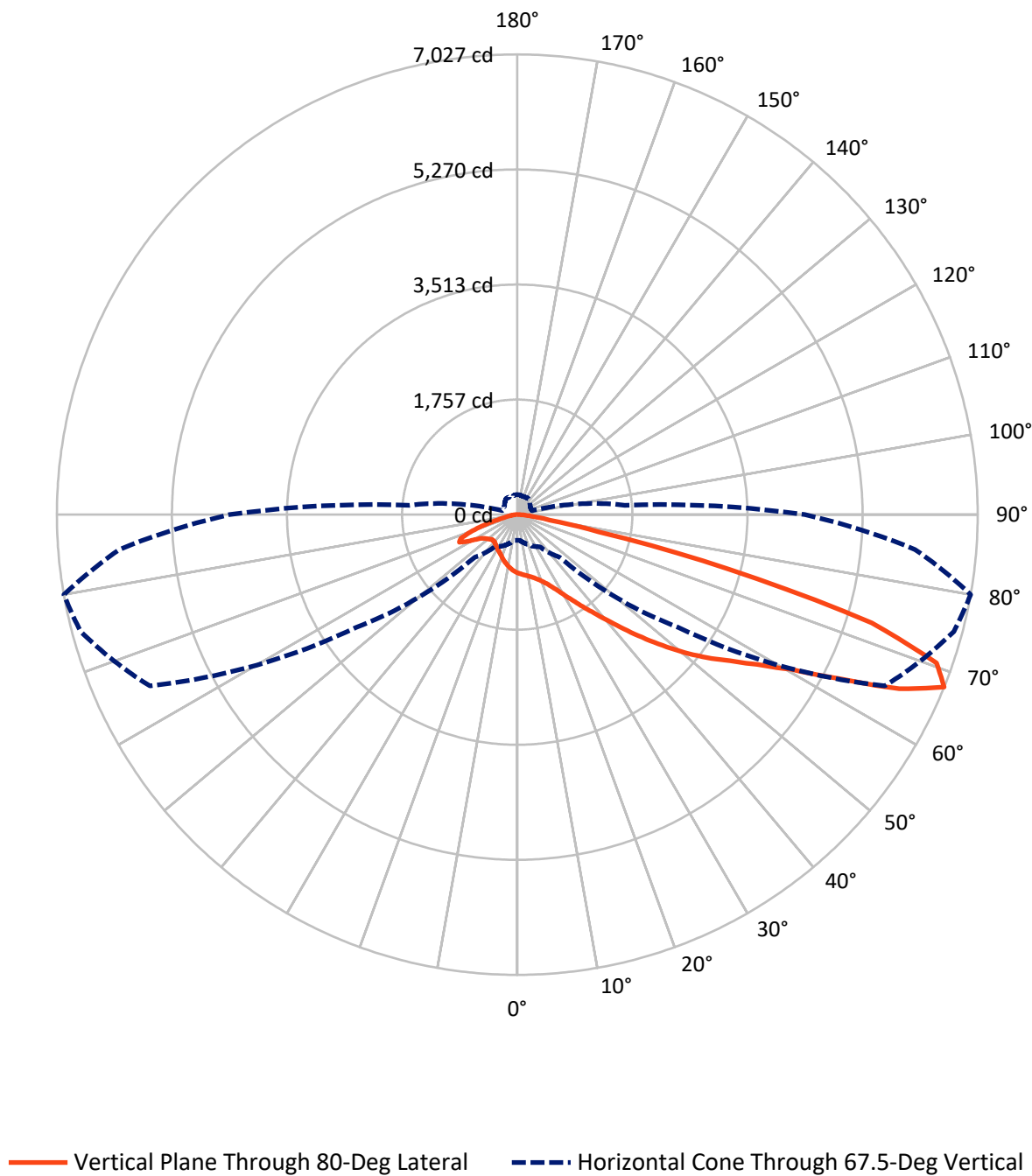


Based on 10 foot mounting height. Maximum calculated value = 10.8 fc
Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1179.1	0.0	1179.1
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	5223.6	0.0	5223.6
	% Fixture	81.6	0.0	81.6
Total	Lumens	6402.7	0.0	6402.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.1	1.3
10°-20°	236.4	3.7
20°-30°	391.3	6.1
30°-40°	640.0	10.0
40°-50°	1033.3	16.1
50°-60°	1491.8	23.3
60°-70°	1646.3	25.7
70°-80°	758.8	11.9
80°-90°	122.7	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°	6402.7	100.0
0°-180°	6402.7	100.0

Coefficient of Utilization



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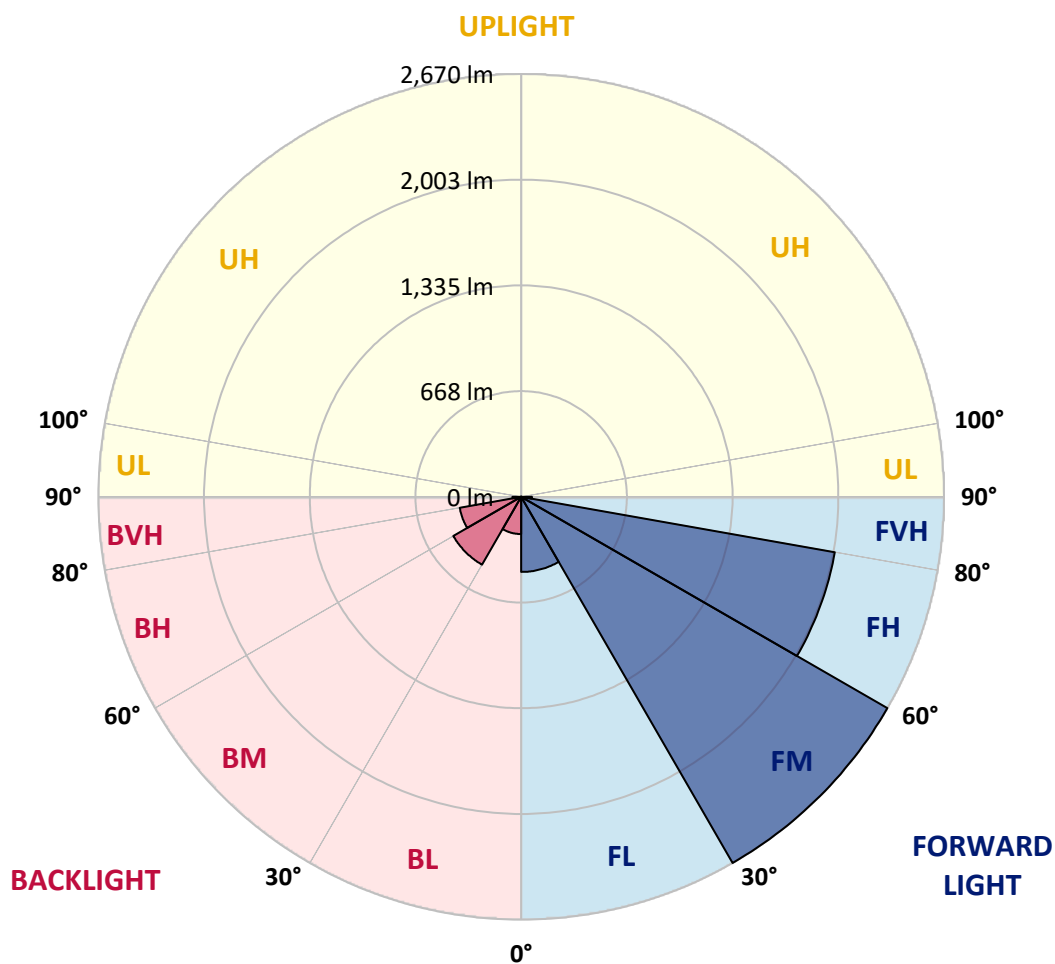
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	474.4	7.4			
FM	(30°-60°)	2670.4	41.7			
FH	(60°-80°)	2011.3	31.4			G2/5000
FVH	(80°-90°)	67.5	1.1			G1/100
BL	(0°-30°)	235.3	3.7	B1/500		
BM	(30°-60°)	494.7	7.7	B1/1000		
BH	(60°-80°)	393.9	6.2	B1/500		G1/500
BVH	(80°-90°)	55.3	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°	889.5	889.5	889.5	889.5	889.5	889.5	889.5	889.5	889.5	889.5	889.5
2.5°	973.1	967.4	968.3	966.8	962.0	953.8	945.0	928.9	912.2	903.4	896.5
5°	1054.4	1052.8	1050.6	1045.6	1033.6	1016.6	995.4	967.1	936.5	920.4	905.0
7.5°	1115.2	1114.3	1111.4	1108.3	1096.6	1076.1	1044.3	1003.9	959.5	937.4	913.5
10°	1120.3	1121.8	1124.0	1132.6	1134.1	1123.1	1090.6	1041.8	983.5	955.1	924.5
12.5°	1077.4	1080.9	1089.4	1111.1	1134.1	1147.7	1131.0	1081.5	1011.5	977.2	938.4
15°	1020.7	1022.5	1032.9	1062.9	1104.2	1146.1	1161.9	1125.3	1047.8	1005.5	959.2
17.5°	996.4	997.3	1004.6	1024.4	1062.9	1122.8	1179.2	1172.9	1092.2	1040.8	984.7
20°	984.1	986.3	996.7	1016.2	1040.5	1092.8	1181.7	1224.3	1145.2	1085.0	1016.9
22.5°	1019.1	1018.1	1021.9	1031.7	1052.2	1083.7	1179.8	1277.2	1212.6	1141.7	1058.8
25°	1100.7	1104.2	1097.6	1086.5	1093.2	1115.2	1189.9	1334.6	1297.1	1214.5	1113.6
27.5°	1217.0	1213.6	1203.8	1177.9	1164.4	1173.8	1223.3	1396.4	1402.1	1310.3	1186.1
30°	1333.0	1330.2	1320.7	1289.2	1261.5	1253.6	1288.3	1467.3	1527.2	1425.4	1275.0
32.5°	1453.4	1450.3	1441.5	1409.9	1376.5	1358.2	1380.6	1549.3	1674.7	1562.8	1379.7
35°	1601.9	1595.9	1577.3	1533.5	1500.7	1486.5	1496.9	1652.3	1844.9	1725.5	1506.7
37.5°	1741.5	1750.7	1731.8	1671.2	1628.7	1623.6	1635.3	1778.1	2028.4	1907.3	1652.6
40°	1881.8	1883.4	1866.4	1816.9	1773.1	1764.9	1794.2	1930.7	2244.9	2124.8	1830.1
42.5°	2026.8	2030.0	2001.3	1955.6	1923.4	1925.0	1958.4	2109.4	2493.3	2381.1	2034.4
45°	2198.6	2203.3	2171.8	2111.9	2082.6	2141.5	2127.7	2309.9	2765.7	2672.4	2268.9
47.5°	2378.3	2385.5	2361.6	2305.5	2268.9	2349.9	2296.9	2532.1	3058.8	2984.7	2526.4
50°	2476.3	2486.7	2510.0	2505.9	2498.0	2484.5	2485.8	2770.4	3361.1	3310.0	2791.2
52.5°	2423.7	2423.3	2508.4	2611.8	2722.2	2730.4	2715.9	3021.6	3643.5	3628.1	3040.5
55°	2182.8	2199.2	2328.1	2528.3	2829.6	3017.8	3060.7	3309.4	3920.9	3938.9	3293.6
57.5°	1781.9	1795.4	1969.4	2248.4	2684.6	3188.7	3551.2	3727.7	4231.1	4314.9	3630.6
60°	1208.5	1224.9	1409.3	1744.4	2294.4	3093.5	4018.0	4474.1	4602.4	4793.1	4103.4
62.5°	710.2	725.0	875.3	1100.4	1615.5	2651.2	4222.9	5536.0	5192.1	5514.6	4824.6
65°	488.9	499.0	572.1	685.0	928.3	1785.7	3968.8	6269.2	6099.6	6408.5	5660.9
67.5°	393.4	392.1	450.1	527.0	597.6	920.7	3001.1	6186.3	6897.8	7026.7	6094.9
70°	324.0	322.8	362.2	425.8	477.5	518.5	1634.7	5220.5	6735.1	6787.4	5695.2
72.5°	271.1	272.3	297.6	344.8	391.8	390.5	718.4	3672.5	5298.4	5660.2	4540.0
75°	228.8	229.5	246.2	279.6	318.0	314.6	389.6	1989.6	3079.9	3331.8	2516.6
77.5°	194.8	195.4	206.1	224.7	252.2	250.9	284.3	859.6	1284.8	1269.0	860.8
80°	173.7	173.7	178.7	182.2	197.3	191.6	210.9	412.9	543.1	501.5	343.6
82.5°	136.2	136.8	167.7	166.4	155.4	148.1	148.1	243.3	287.8	266.0	201.1
85°	76.6	76.3	108.1	130.5	136.8	104.3	103.4	136.2	156.7	138.1	97.4
87.5°	32.8	33.4	50.1	58.0	77.5	64.9	64.0	70.3	79.7	69.0	45.1
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°	889.5	889.5	889.5	889.5	889.5	889.5	889.5	889.5	889.5	889.5	889.5
2.5°	889.8	881.6	863.7	841.3	821.1	807.9	795.9	778.6	779.5	767.5	758.7
5°	889.2	872.2	830.6	781.1	733.5	699.1	673.3	650.0	644.3	633.3	626.6
7.5°	889.8	862.1	792.1	713.0	654.1	610.6	588.5	576.2	573.4	569.6	569.9
10°	892.0	853.0	749.9	649.3	587.6	558.9	553.5	557.3	561.7	563.0	563.3
12.5°	897.1	844.8	703.6	592.6	545.9	537.1	546.3	559.2	567.7	571.8	571.5
15°	908.4	838.5	659.1	548.2	522.9	527.7	544.7	563.0	575.3	580.9	581.2
17.5°	920.7	829.3	613.4	514.1	505.9	517.9	539.0	560.4	575.6	581.9	583.1
20°	936.8	818.0	565.5	488.6	489.8	503.4	523.2	544.7	561.4	566.7	569.3
22.5°	957.9	805.7	523.6	467.8	471.6	482.0	497.4	516.0	530.5	533.0	535.2
25°	986.3	792.4	490.2	448.9	450.4	456.4	466.8	477.9	487.9	485.1	487.3
27.5°	1024.4	781.1	465.3	431.5	428.7	429.9	435.3	438.8	444.1	436.3	437.2
30°	1069.2	768.8	446.0	416.4	408.5	406.3	407.6	409.5	413.6	402.8	401.3
32.5°	1121.2	754.0	428.1	403.2	392.1	387.7	388.3	393.4	409.1	402.5	399.1
35°	1181.7	737.3	409.1	388.7	381.1	374.8	374.2	389.9	436.9	432.8	429.6
37.5°	1252.6	720.6	390.2	372.3	372.9	366.0	363.8	381.7	442.2	426.2	424.0
40°	1342.8	711.7	374.2	354.9	362.8	361.9	357.4	366.6	406.9	377.6	373.8
42.5°	1454.4	713.0	362.2	336.3	350.8	360.9	354.0	354.3	368.8	346.7	343.3
45°	1592.1	727.8	353.7	321.5	337.3	360.0	352.7	347.7	348.9	337.3	335.4
47.5°	1752.9	758.4	347.7	309.2	324.4	356.5	352.4	345.8	342.9	336.6	335.1
50°	1931.6	802.8	343.3	297.6	312.7	350.8	352.7	343.9	340.7	338.2	337.3
52.5°	2107.2	853.6	336.6	287.5	303.5	343.9	353.7	342.0	338.5	336.6	335.7
55°	2302.9	916.9	326.6	279.0	296.0	335.1	353.7	339.2	335.4	335.7	335.4
57.5°	2567.4	1019.4	314.6	271.7	286.8	324.4	347.7	336.0	331.3	331.6	331.9
60°	2980.6	1200.0	300.1	264.5	275.5	311.7	339.5	329.1	324.4	325.6	325.9
62.5°	3588.4	1465.1	281.2	253.7	263.5	298.2	328.1	320.3	315.5	318.7	318.7
65°	4220.0	1699.0	257.8	240.2	250.9	283.4	313.9	309.2	304.5	311.7	311.4
67.5°	4389.9	1646.7	234.5	225.4	238.3	267.0	296.9	294.4	291.9	304.5	303.9
70°	3899.8	1322.0	213.1	210.2	224.4	249.3	278.6	278.6	277.1	286.5	284.3
72.5°	2971.2	937.4	192.6	194.2	208.7	230.1	258.8	261.0	258.5	263.2	261.3
75°	1590.6	536.5	172.1	176.5	189.1	210.6	236.7	238.9	237.4	237.0	238.0
77.5°	528.6	262.3	150.7	157.6	168.6	190.4	213.7	217.2	213.4	212.8	212.5
80°	235.5	164.9	127.0	136.2	145.9	167.4	189.4	192.3	188.2	193.9	186.6
82.5°	151.3	108.4	101.8	111.9	121.4	144.4	165.2	165.8	162.0	188.2	160.4
85°	73.4	67.1	76.6	85.7	93.9	113.5	136.8	137.1	127.7	116.3	112.2
87.5°	36.6	39.1	51.1	59.3	63.4	77.9	99.6	97.7	93.6	85.1	78.5
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)