

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: P302830

Luminaire Tested: **GLNA-AF-02-LED-E1-T4W-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302830
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191569)
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-T4W-8030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7945.9 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 85
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

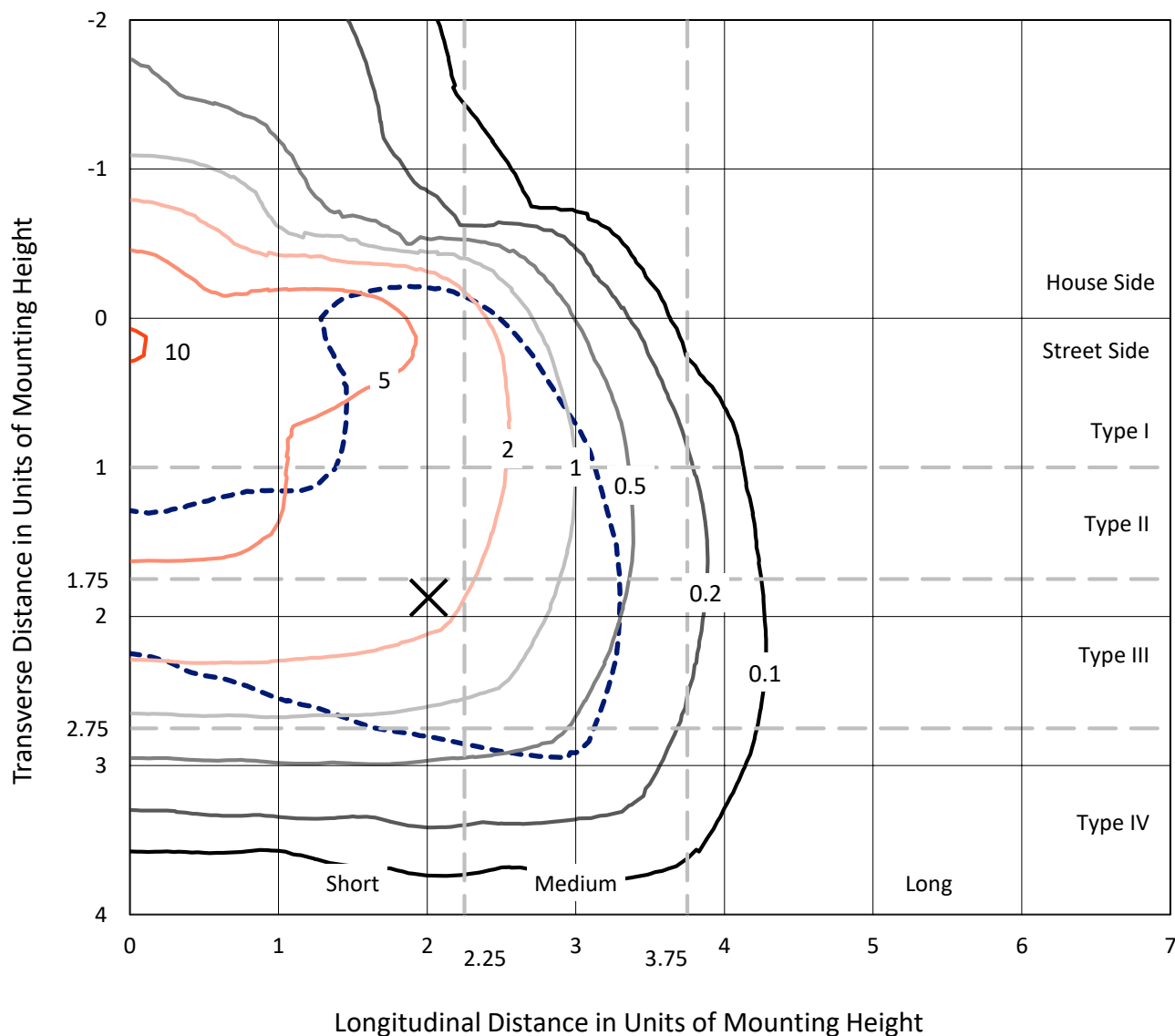


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

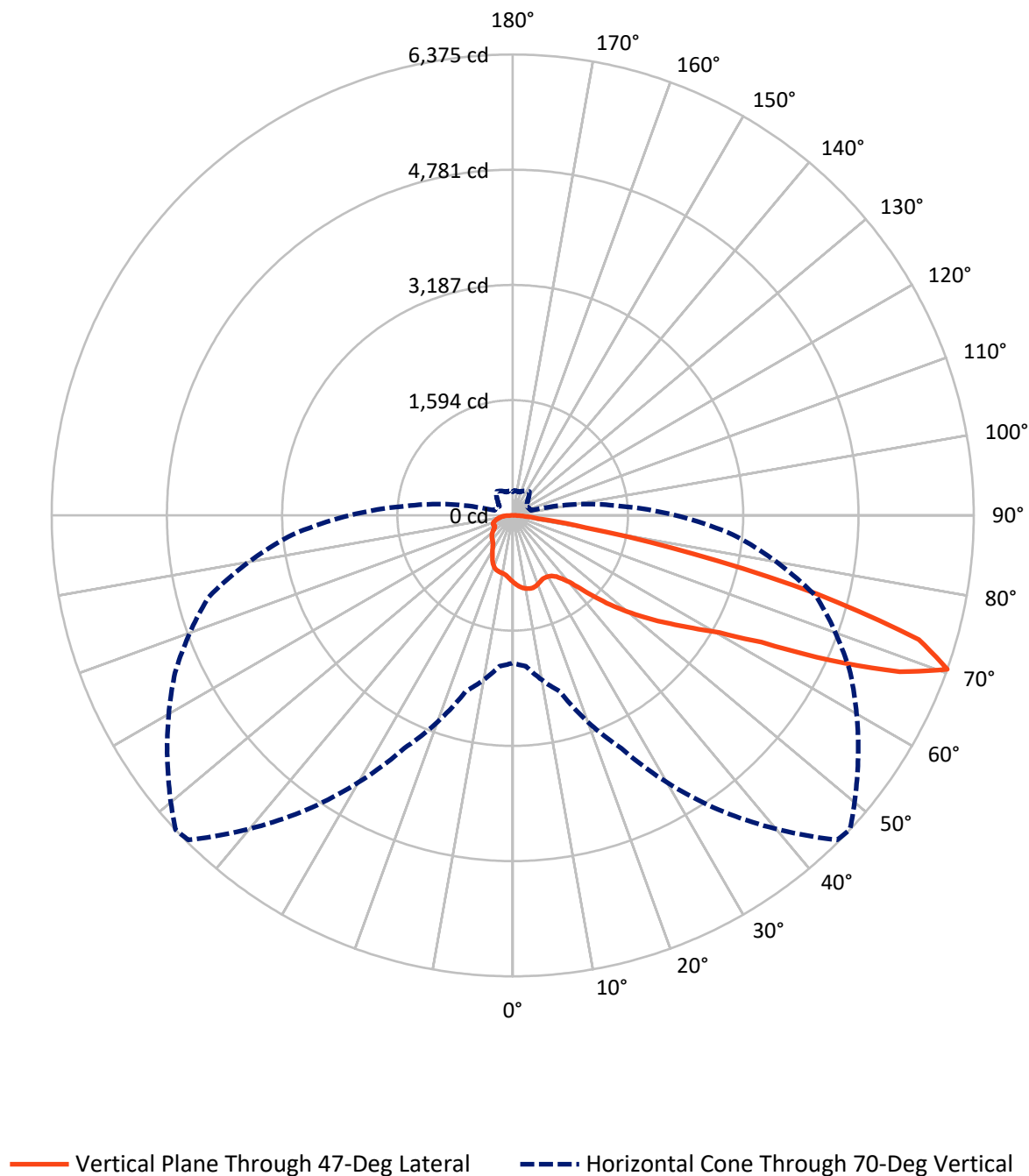


Based on 10 foot mounting height. Maximum calculated value = 10.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1657.7	0.0	1657.7
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	6288.2	0.0	6288.2
	% Fixture	79.1	0.0	79.1
Total	Lumens	7945.9	0.0	7945.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	1.1
10°-20°	259.2	3.3
20°-30°	382.7	4.8
30°-40°	556.3	7.0
40°-50°	1001.1	12.6
50°-60°	1734.3	21.8
60°-70°	2475.4	31.2
70°-80°	1270.7	16.0
80°-90°	177.9	2.2
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°	7945.9	100.0
0°-180°	7945.9	100.0

Coefficient of Utilization



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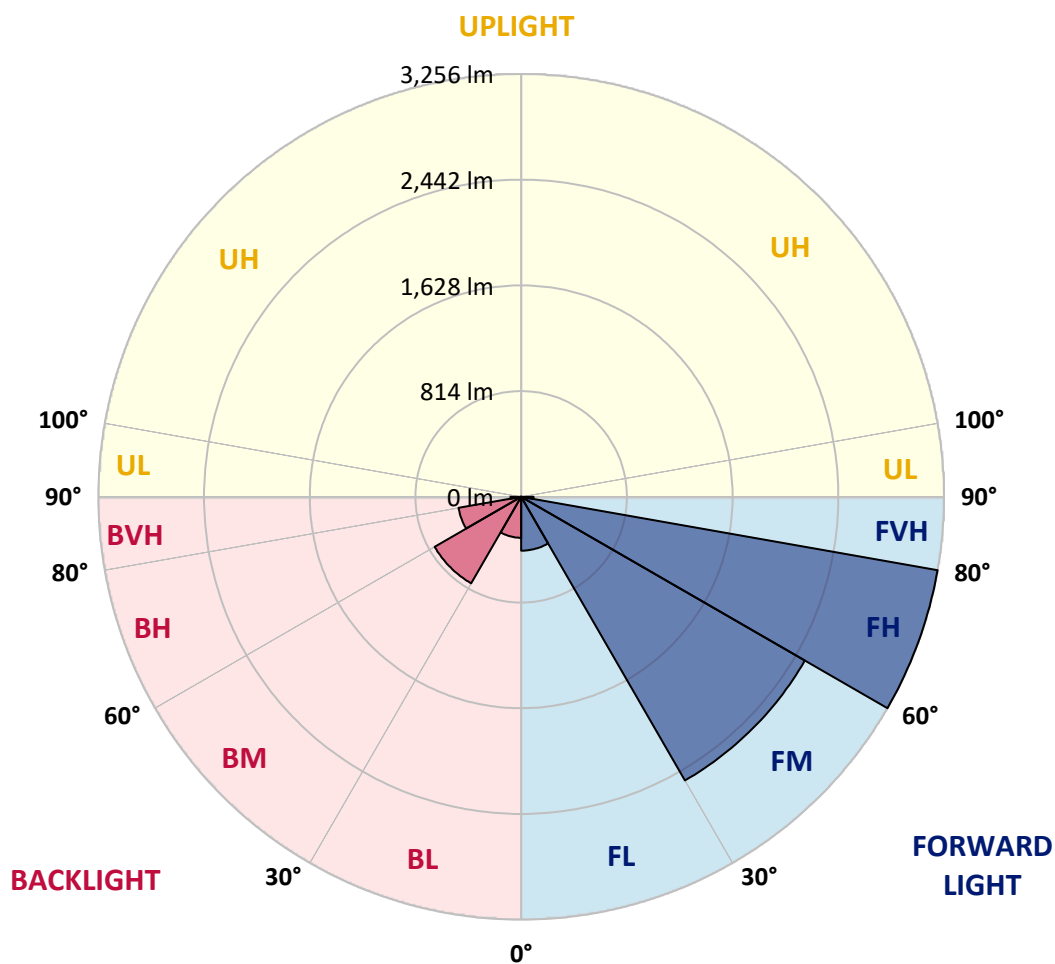
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	414.6	5.2			
FM	(30°-60°)	2522.2	31.7			
FH	(60°-80°)	3256.4	41.0			G2/5000
FVH	(80°-90°)	94.9	1.2			G1/100
BL	(0°-30°)	315.6	4.0	B1/500		
BM	(30°-60°)	769.4	9.7	B1/1000		
BH	(60°-80°)	489.6	6.2	B1/500		G1/500
BVH	(80°-90°)	83.0	1.0			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9
2.5°	976.1	974.2	973.4	971.9	970.0	960.2	958.3	951.3	941.7	931.6	921.2
5°	1040.3	1039.9	1035.6	1027.9	1015.5	994.2	989.2	972.3	949.4	927.3	905.4
7.5°	1096.7	1093.2	1085.1	1069.6	1048.0	1019.0	1012.1	988.4	957.1	927.0	897.2
10°	1138.0	1136.1	1118.4	1097.1	1068.8	1036.7	1028.6	1002.3	967.9	929.6	892.5
12.5°	1161.6	1157.8	1137.3	1111.8	1078.2	1046.9	1038.6	1012.1	973.4	929.6	886.0
15°	1160.1	1157.4	1136.9	1109.0	1075.1	1047.6	1040.3	1013.6	972.3	925.8	877.5
17.5°	1129.2	1130.3	1113.0	1085.5	1057.7	1036.7	1030.2	1005.5	964.4	918.1	867.5
20°	1075.1	1080.5	1068.8	1044.6	1029.0	1014.8	1010.5	989.6	952.5	906.9	856.6
22.5°	1020.9	1025.9	1021.3	1000.8	998.5	990.0	987.7	972.7	942.1	900.0	850.0
25°	981.1	985.8	985.0	967.1	974.2	973.8	971.9	964.4	939.8	900.0	851.2
27.5°	970.3	971.9	970.3	954.0	963.7	971.5	970.0	968.7	946.7	911.2	866.0
30°	1007.5	1005.1	993.1	960.2	969.2	980.0	978.4	979.2	967.5	940.6	898.8
32.5°	1155.5	1145.0	1107.1	1014.8	991.1	996.9	997.7	1010.5	1012.5	985.8	949.8
35°	1376.9	1365.4	1316.2	1160.9	1059.6	1039.5	1039.5	1058.8	1070.4	1050.7	1029.0
37.5°	1611.6	1598.8	1572.6	1363.5	1203.4	1113.4	1111.4	1124.9	1141.5	1146.2	1151.6
40°	1878.3	1864.8	1872.1	1590.7	1404.0	1241.2	1213.8	1204.1	1248.9	1278.7	1322.1
42.5°	2170.3	2164.0	2166.7	1843.9	1632.4	1432.7	1393.6	1343.7	1397.9	1450.8	1541.7
45°	2440.4	2445.8	2443.1	2114.9	1886.9	1666.1	1624.7	1528.1	1581.1	1671.9	1820.0
47.5°	2677.0	2654.5	2689.3	2411.0	2171.8	1927.5	1876.4	1747.0	1800.6	1912.7	2163.2
50°	2964.2	2961.1	2910.1	2806.2	2516.1	2189.9	2123.0	1973.0	2056.5	2212.4	2595.9
52.5°	3266.2	3210.1	3163.3	3113.4	2881.5	2459.0	2377.0	2198.4	2357.3	2553.2	3123.1
55°	3327.9	3302.9	3360.8	3444.7	3233.7	2738.5	2643.0	2480.9	2696.0	2943.0	3731.2
57.5°	3460.2	3459.8	3579.7	3729.3	3596.2	3034.9	2938.6	2822.3	3076.7	3389.4	4376.7
60°	3549.5	3574.5	3797.3	4087.6	3952.3	3377.5	3288.9	3216.2	3509.7	3888.5	4978.2
62.5°	3596.2	3630.3	3934.2	4232.9	4455.5	3947.6	3859.2	3754.4	4082.6	4435.9	5330.0
65°	3401.9	3468.6	3912.8	4358.6	4896.3	4871.9	4832.1	4648.1	4798.8	4868.4	5202.9
67.5°	2863.7	2932.1	3449.4	4241.4	5211.0	5763.4	5771.9	5457.6	5239.6	4905.5	4374.4
70°	2040.3	2094.0	2522.0	3556.1	4971.3	6345.9	6374.9	5830.6	5151.8	4350.4	3056.2
72.5°	968.7	1001.5	1406.7	2314.4	3944.9	5814.4	5870.5	5354.4	4380.6	3220.8	1667.2
75°	356.0	366.0	475.4	984.6	2288.1	4287.9	4354.0	3838.3	2903.9	1603.6	635.1
77.5°	213.4	219.9	266.8	415.6	900.0	2450.9	2548.6	2087.4	1269.1	596.9	312.4
80°	149.2	153.8	191.3	258.6	425.2	934.0	1020.9	852.0	505.6	377.7	227.2
82.5°	100.9	103.2	134.5	174.7	282.6	333.5	359.9	378.9	341.0	281.0	144.2
85°	66.1	68.4	91.3	115.2	179.7	172.4	176.3	223.0	248.9	190.9	80.0
87.5°	37.9	39.4	54.9	61.5	88.2	73.1	73.8	117.5	159.3	128.8	48.7
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°	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9
2.5°	918.5	913.5	902.3	895.2	888.7	887.2	884.5	884.1	883.7	883.7	882.5
5°	897.9	889.5	872.1	862.4	854.3	853.5	853.1	855.1	855.8	856.6	855.4
7.5°	884.8	873.3	851.6	837.7	828.1	825.7	829.6	838.5	844.3	846.6	845.4
10°	876.8	862.4	837.3	822.2	814.1	812.9	818.0	828.5	840.4	845.0	844.7
12.5°	867.5	851.2	824.5	808.7	804.1	806.4	812.9	822.6	835.0	842.3	842.7
15°	858.1	839.3	811.8	797.9	796.0	799.1	805.2	812.6	822.2	829.6	830.4
17.5°	847.0	827.2	799.8	785.5	783.9	785.5	785.9	789.7	796.0	802.9	804.9
20°	835.0	814.9	786.2	772.0	765.1	758.9	751.8	752.6	754.5	761.6	763.1
22.5°	826.4	806.4	775.8	756.1	737.6	719.0	705.1	703.2	703.9	709.7	711.6
25°	827.2	806.0	773.1	739.1	698.6	668.8	650.2	647.1	646.7	650.9	653.7
27.5°	842.3	821.0	783.2	721.7	656.1	611.9	592.2	589.9	586.9	588.0	591.1
30°	876.0	856.2	807.6	703.9	610.0	556.3	535.8	533.4	529.2	527.3	529.6
32.5°	930.8	914.6	843.1	686.9	564.0	508.7	487.9	482.9	480.2	477.9	479.8
35°	1022.1	1015.2	890.6	668.4	523.4	471.9	453.1	445.4	441.5	445.8	448.8
37.5°	1165.1	1169.0	952.9	639.4	492.1	447.7	431.8	422.9	417.1	420.6	424.1
40°	1367.7	1370.4	1021.7	598.4	465.0	433.3	416.4	408.3	400.1	393.9	393.5
42.5°	1633.6	1606.2	1089.4	554.0	433.7	424.4	405.6	395.4	383.1	366.0	362.6
45°	1949.0	1852.9	1140.7	502.9	398.5	413.7	393.5	379.6	360.3	341.8	339.8
47.5°	2312.5	2117.6	1165.9	450.0	365.6	397.7	378.9	356.8	332.4	323.1	322.0
50°	2756.2	2431.9	1177.8	398.5	337.1	376.9	357.6	331.6	311.2	309.3	308.1
52.5°	3261.5	2810.0	1181.8	356.4	313.5	349.9	340.2	315.1	298.8	300.4	300.4
55°	3790.4	3200.4	1129.2	325.8	291.8	322.0	328.5	308.5	294.9	301.2	303.5
57.5°	4275.8	3546.4	963.7	302.4	271.4	300.8	324.3	314.7	305.4	330.5	332.0
60°	4648.5	3750.8	719.7	281.0	256.3	293.4	335.6	338.3	340.6	400.4	408.7
62.5°	4726.6	3682.9	494.8	264.5	249.3	299.7	356.0	356.4	353.7	395.4	400.4
65°	4368.2	3252.6	359.9	255.1	243.5	310.8	373.5	365.3	347.5	379.3	369.9
67.5°	3469.0	2450.5	299.7	248.2	235.1	310.1	392.0	373.5	344.1	371.6	356.4
70°	2251.8	1481.7	266.8	242.4	224.9	295.3	402.7	372.7	333.9	345.6	327.8
72.5°	1098.6	662.6	244.7	233.9	214.5	274.9	402.4	365.6	323.5	322.8	313.1
75°	429.8	303.5	224.5	221.1	196.8	251.6	391.6	355.6	311.2	298.8	295.3
77.5°	251.6	216.5	199.1	202.2	175.5	228.4	375.8	338.3	294.1	279.5	275.6
80°	183.2	162.0	169.7	174.7	150.0	205.3	354.5	317.0	275.3	282.6	277.2
82.5°	117.5	104.4	137.6	142.6	124.9	181.7	331.2	294.5	248.6	225.7	220.3
85°	60.0	66.1	102.5	108.6	96.3	149.2	303.1	264.9	218.4	187.8	190.9
87.5°	33.6	45.2	65.3	73.1	68.0	114.8	245.9	218.4	178.2	144.9	127.6
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)