

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: P270134

Luminaire Tested: **GWC-AF-02-LED-E1-T3R-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-T3R-7027-600
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7147.6 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

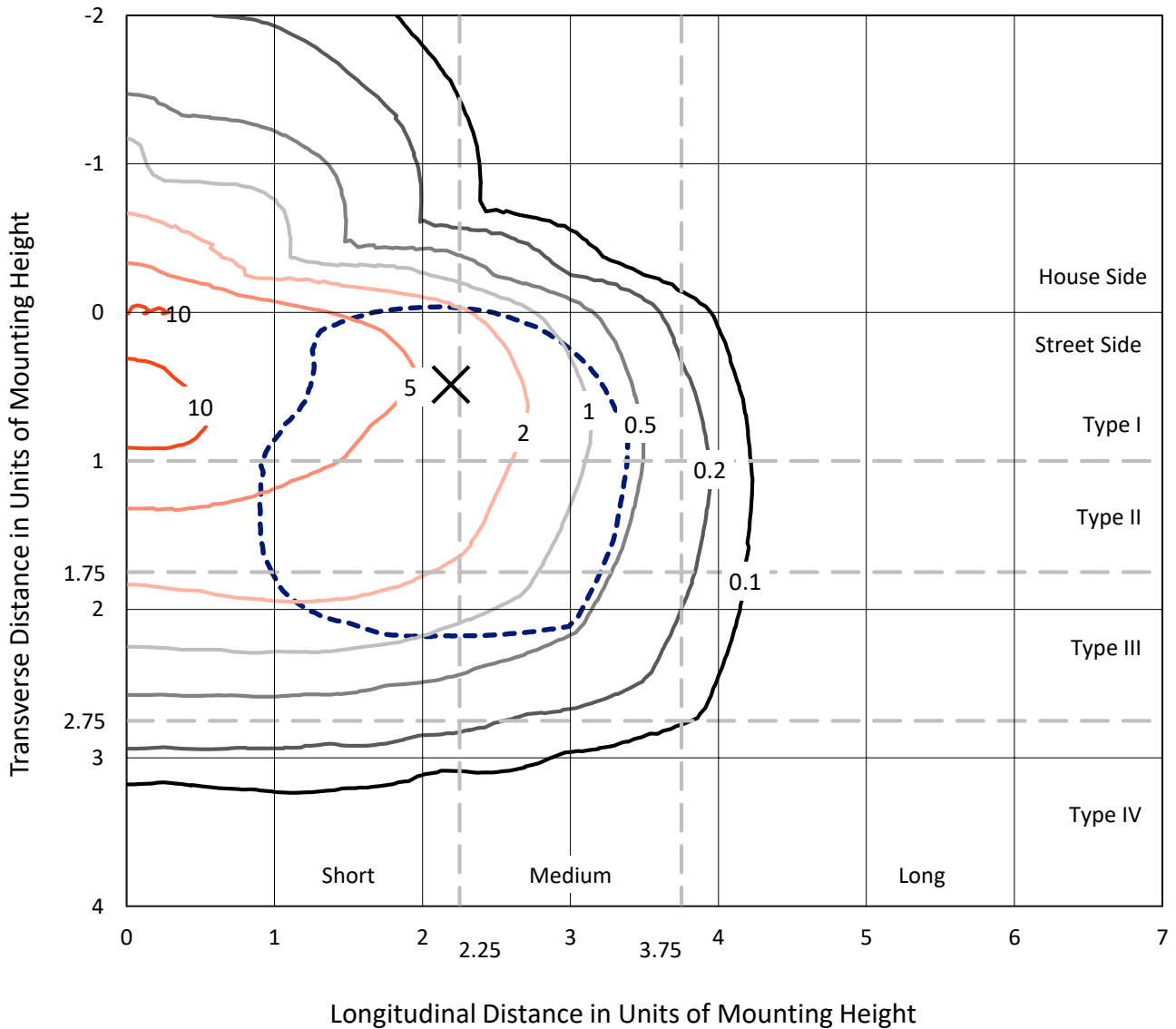
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P270134
 CATALOG NUMBER: GWC-AF-02-LED-E1-T3R-7027-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

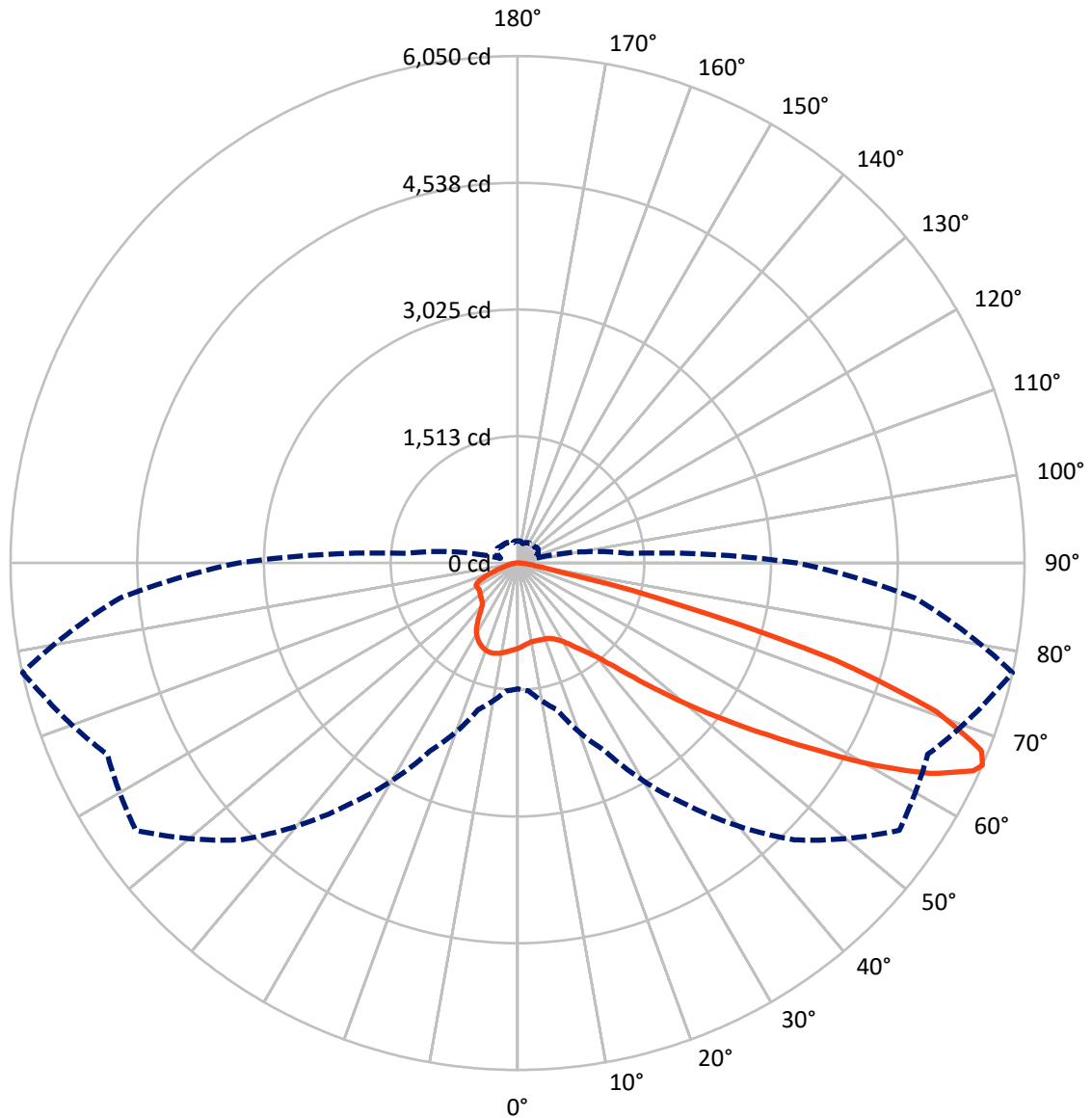


Based on 10 foot mounting height. Maximum calculated value = 12.6 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P270134

CATALOG NUMBER: GWC-AF-02-LED-E1-T3R-7027-600

Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P270134

CATALOG NUMBER: GWC-AF-02-LED-E1-T3R-7027-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1221.1	0.0	1221.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	5926.5	0.0	5926.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	7147.6	0.0	7147.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	1.3
10°-20°	256.7	3.6
20°-30°	438.1	6.1
30°-40°	701.4	9.8
40°-50°	1083.6	15.2
50°-60°	1536.9	21.5
60°-70°	2055.9	28.8
70°-80°	892.9	12.5
80°-90°	91.1	1.3
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°	7147.6	100.0
0°-180°	7147.6	100.0

Coefficient of Utilization



REPORT NUMBER: P270134

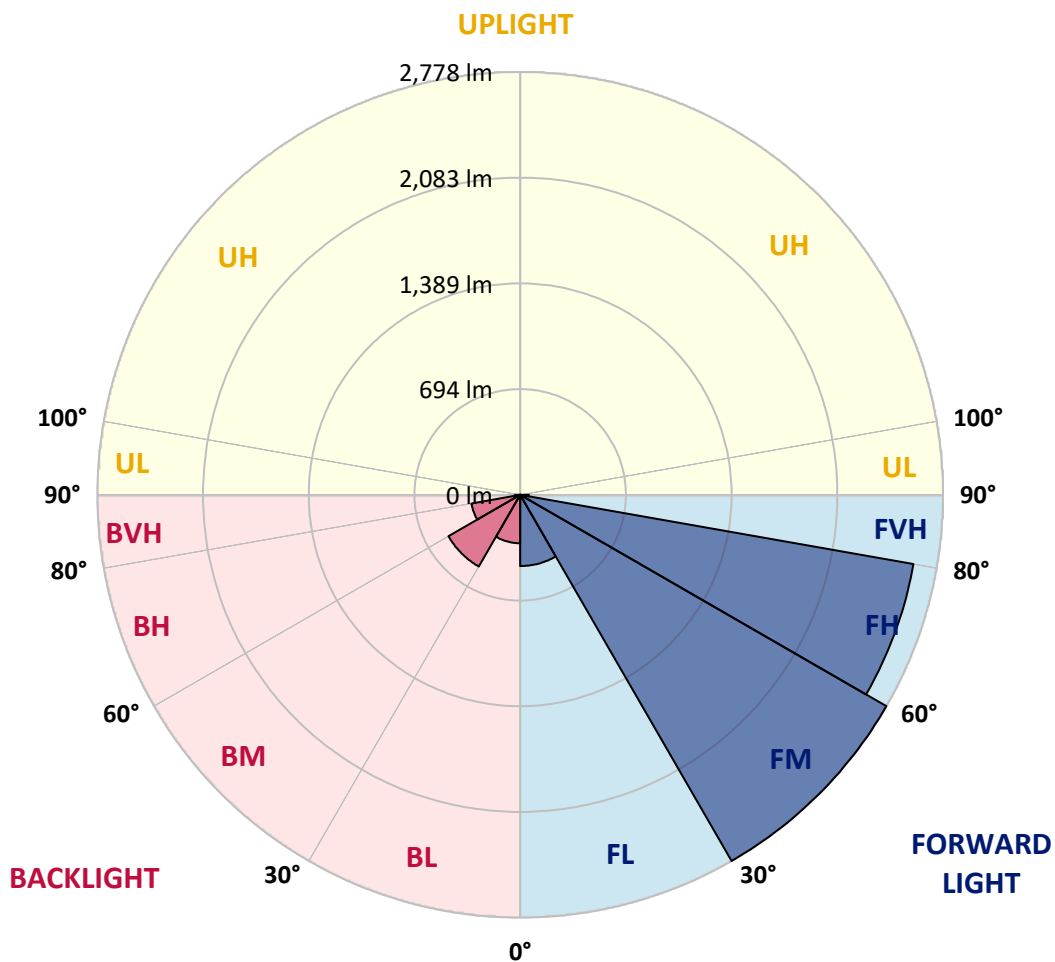
CATALOG NUMBER: GWC-AF-02-LED-E1-T3R-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	467.8	6.5			
FM	(30°-60°)	2777.9	38.9			
FH	(60°-80°)	2623.6	36.7			G2/5000
FVH	(80°-90°)	57.1	0.8			G1/100
BL	(0°-30°)	318.0	4.4	B1/500		
BM	(30°-60°)	543.9	7.6	B1/1000		
BH	(60°-80°)	325.2	4.6	B1/500		G1/500
BVH	(80°-90°)	34.0	0.5			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 III Short





REPORT NUMBER: P270134

CATALOG NUMBER: GWC-AF-02-LED-E1-T3R-7027-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6
2.5°	901.1	907.1	912.1	916.9	926.3	941.9	959.8	974.3	995.2	999.3	1010.5
5°	818.3	818.3	822.3	829.5	842.3	865.6	889.9	922.3	967.9	978.7	1008.4
7.5°	778.1	778.5	780.8	786.9	798.1	819.3	845.9	884.2	945.9	963.9	1014.5
10°	793.0	789.6	784.5	781.5	783.1	795.7	821.0	863.5	932.4	955.3	1028.0
12.5°	876.1	869.6	852.0	828.8	806.5	797.3	812.2	853.7	926.7	953.4	1045.9
15°	1011.9	1009.2	976.4	928.1	874.1	828.8	818.7	850.1	927.4	955.8	1067.2
17.5°	1182.0	1178.3	1135.0	1064.8	976.7	888.5	841.3	853.1	929.7	959.8	1087.8
20°	1353.8	1342.4	1295.8	1212.1	1099.0	970.0	878.8	860.8	932.8	964.2	1109.4
22.5°	1482.3	1472.9	1431.0	1349.5	1219.2	1064.1	929.0	874.3	942.6	977.0	1136.1
25°	1595.1	1595.7	1554.2	1475.6	1340.7	1164.1	993.9	910.5	967.6	1003.3	1172.6
27.5°	1734.5	1726.4	1687.6	1609.6	1461.0	1265.1	1072.2	960.1	1004.7	1040.9	1220.5
30°	1901.4	1895.6	1850.7	1762.2	1594.4	1373.6	1161.8	1017.9	1052.6	1090.2	1283.3
32.5°	2097.5	2094.8	2048.3	1934.4	1748.4	1501.2	1266.8	1094.2	1124.2	1163.1	1373.6
35°	2327.9	2328.2	2273.2	2136.4	1916.9	1649.8	1386.0	1192.4	1211.4	1251.9	1480.9
37.5°	2469.7	2487.0	2466.3	2326.9	2107.7	1815.9	1540.7	1322.8	1310.6	1351.6	1596.0
40°	2500.1	2521.0	2586.3	2515.3	2321.1	1999.0	1677.8	1448.2	1433.0	1483.0	1744.3
42.5°	2457.6	2486.6	2624.4	2674.3	2547.8	2224.6	1862.2	1634.3	1615.0	1682.2	1928.8
45°	2432.3	2453.9	2613.3	2757.2	2744.3	2479.6	2096.9	1867.9	1860.8	1949.0	2141.5
47.5°	2388.4	2408.0	2561.2	2776.5	2859.8	2713.2	2378.9	2153.6	2167.5	2283.0	2381.6
50°	2412.0	2420.1	2503.2	2727.4	2893.3	2884.5	2693.9	2484.5	2531.9	2676.1	2653.4
52.5°	2408.6	2429.6	2496.5	2647.0	2897.7	2990.2	3004.4	2853.7	2953.4	3118.8	2955.1
55°	1947.3	1985.8	2417.1	2626.8	2913.2	3093.9	3280.6	3242.8	3428.6	3621.3	3295.4
57.5°	1859.5	1883.7	2123.0	2669.3	2995.6	3291.7	3588.0	3671.0	3981.7	4205.7	3710.2
60°	1842.2	1872.2	2119.8	2721.3	3162.8	3614.3	4043.5	4189.4	4654.8	4900.0	4191.1
62.5°	1788.5	1821.0	2100.0	2714.6	3400.2	4060.3	4626.7	4740.5	5293.1	5531.6	4593.3
65°	1618.3	1648.7	1937.5	2605.4	3560.3	4536.6	5317.1	5245.7	5797.0	5976.2	4793.9
66°	1501.9	1531.6	1809.5	2477.2	3523.2	4671.7	5561.6	5402.1	5909.8	6050.3	4754.7
67.5°	1288.7	1312.0	1560.9	2189.8	3325.5	4709.5	5767.3	5519.7	5921.5	5971.2	4530.8
70°	814.2	821.0	1014.5	1511.7	2517.4	4084.4	5454.1	5228.0	5433.2	5298.8	3798.3
72.5°	353.2	350.9	487.0	768.9	1425.2	2740.6	4411.9	4313.8	4262.0	3955.4	2658.8
75°	196.5	199.2	253.0	357.0	579.2	1346.1	2886.2	2761.8	2331.9	1989.8	1205.7
77.5°	157.7	161.4	209.8	253.2	260.1	469.4	1350.5	1099.0	661.6	530.9	335.0
80°	124.7	131.4	183.1	197.2	175.3	193.6	436.3	348.9	261.8	240.1	173.6
82.5°	98.6	103.3	157.1	149.3	122.6	130.3	209.1	203.6	170.2	155.0	100.3
85°	70.9	79.7	129.0	112.5	80.4	87.8	138.9	133.0	97.6	79.7	44.3
87.5°	29.0	37.8	91.2	74.6	45.0	40.9	69.3	65.2	46.4	33.8	22.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P270134

CATALOG NUMBER: GWC-AF-02-LED-E1-T3R-7027-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6
2.5°	1017.5	1025.6	1036.1	1042.5	1045.9	1048.3	1052.0	1051.6	1052.6	1053.0	1054.3
5°	1024.2	1037.8	1053.0	1057.1	1057.1	1053.4	1049.7	1043.6	1041.1	1040.5	1041.1
7.5°	1041.9	1056.7	1069.9	1065.2	1055.1	1040.2	1020.9	1004.0	995.0	991.8	991.2
10°	1064.1	1082.1	1087.5	1069.5	1039.8	1004.0	965.9	938.2	922.3	918.0	916.6
12.5°	1091.2	1108.1	1100.6	1062.8	1007.8	950.0	897.3	853.1	820.1	809.5	808.8
15°	1120.9	1134.1	1108.1	1041.9	959.8	874.8	780.8	704.5	663.2	650.1	649.0
17.5°	1148.6	1155.3	1103.7	1005.4	889.2	751.4	626.7	568.0	553.8	557.2	557.8
20°	1172.2	1172.2	1088.8	953.1	778.1	588.9	510.3	509.2	519.4	529.6	531.5
22.5°	1198.2	1182.7	1062.8	879.1	620.7	481.9	470.4	479.9	491.4	502.5	504.2
25°	1230.3	1191.1	1026.7	767.0	488.0	437.7	442.1	449.8	455.6	462.6	463.7
27.5°	1266.1	1201.9	979.1	612.6	423.5	410.0	413.3	416.0	415.4	418.1	418.7
30°	1309.0	1214.4	913.9	478.9	396.9	386.4	380.3	377.9	377.9	382.2	384.0
32.5°	1366.4	1233.0	820.3	410.3	384.0	369.5	349.9	341.1	344.4	359.3	362.6
35°	1429.7	1253.0	693.8	387.0	381.3	361.7	331.3	315.1	315.4	329.3	333.6
37.5°	1498.5	1278.2	554.9	382.7	387.3	362.0	321.5	299.2	290.2	290.2	291.8
40°	1586.6	1304.2	449.2	385.6	400.2	366.1	316.5	286.7	261.0	261.8	263.1
42.5°	1701.4	1326.5	392.4	392.1	415.7	371.4	316.1	270.1	247.8	263.1	276.9
45°	1829.0	1337.7	367.4	397.8	428.2	374.9	310.7	267.4	249.6	294.8	321.2
47.5°	1976.0	1331.3	353.6	399.8	431.3	374.9	304.6	273.9	261.4	341.4	372.2
50°	2137.2	1312.7	340.1	395.8	430.2	374.1	310.4	280.3	265.8	349.5	370.8
52.5°	2326.5	1297.2	325.9	387.0	423.2	370.5	317.1	277.6	251.9	317.8	332.6
55°	2542.7	1301.6	310.0	374.6	412.0	363.4	314.8	266.8	237.4	280.0	289.1
57.5°	2819.0	1353.8	291.1	358.6	396.9	351.6	306.3	261.8	233.0	254.0	259.3
60°	3127.3	1445.1	267.4	342.8	377.9	332.6	299.9	264.1	235.0	251.9	254.6
62.5°	3353.6	1498.1	247.2	319.4	352.2	311.7	291.8	267.2	240.5	259.1	258.4
65°	3415.1	1411.0	221.9	285.4	317.5	289.7	281.6	270.6	242.8	264.7	261.8
66°	3328.9	1317.1	210.7	269.5	299.9	278.9	276.6	270.1	241.8	265.4	260.4
67.5°	3119.8	1124.6	191.5	246.2	271.9	262.8	268.5	267.2	239.1	264.7	257.7
70°	2544.4	767.3	163.9	205.0	226.3	231.4	253.0	256.4	230.3	253.0	237.4
72.5°	1777.7	467.4	144.9	159.1	183.1	197.2	231.7	241.5	218.6	220.9	206.0
75°	859.2	248.3	131.4	123.3	142.2	164.8	206.0	221.3	199.9	184.8	179.4
77.5°	267.9	151.6	111.5	99.3	111.5	133.0	172.2	193.9	178.0	154.7	152.6
80°	143.8	111.5	85.8	79.7	88.2	104.4	135.5	161.8	153.0	138.9	124.0
82.5°	95.0	72.2	63.5	61.8	67.3	79.7	100.6	134.1	134.1	118.8	86.4
85°	49.0	44.3	43.6	43.6	47.0	53.1	68.6	103.3	110.1	62.8	52.0
87.5°	24.3	25.3	23.6	24.7	26.3	26.1	32.8	52.0	62.2	38.2	31.7
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)