

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: P200678

Luminaire Tested: **GPC-AF-02-LED-E1-T3R-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200678
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: GPC-AF-02-LED-E1-T3R-8030-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8374 lumens
Efficiency: N/A
Efficacy: 97.4 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

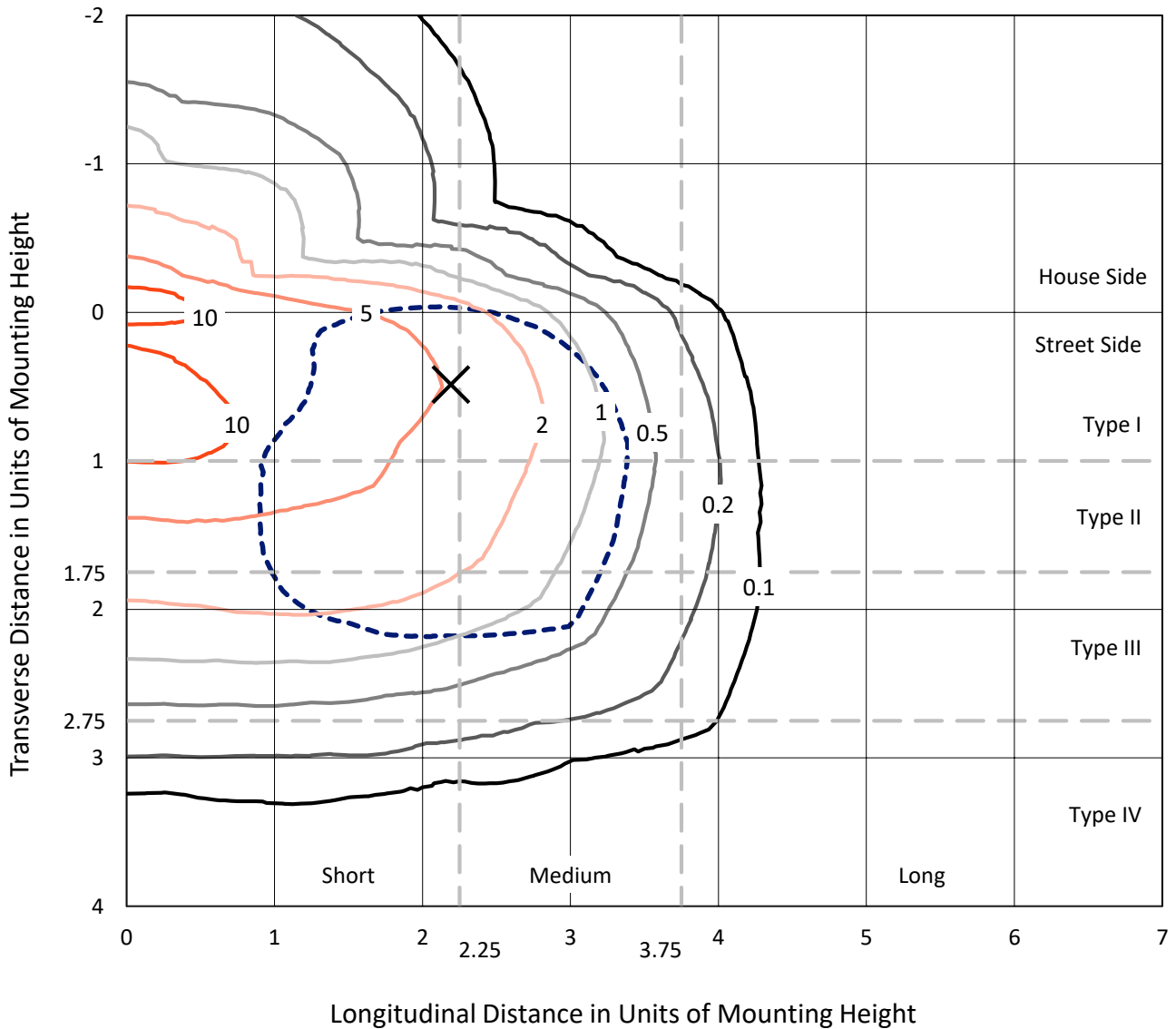
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P200678
 CATALOG NUMBER: GPC-AF-02-LED-E1-T3R-8030-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

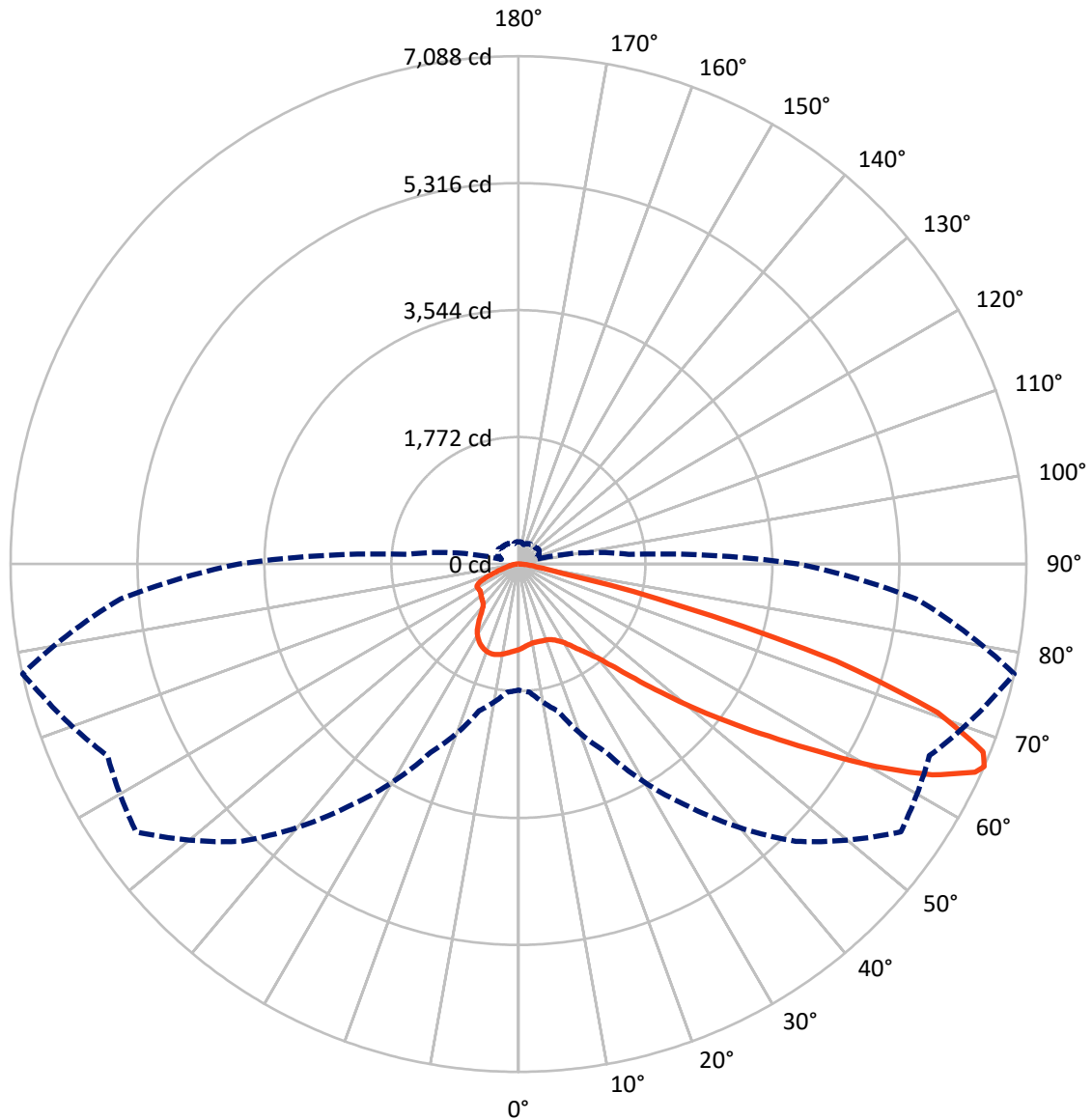


Based on 10 foot mounting height. Maximum calculated value = 14.7 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P200678

CATALOG NUMBER: GPC-AF-02-LED-E1-T3R-8030-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P200678

CATALOG NUMBER: GPC-AF-02-LED-E1-T3R-8030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1430.7	0.0	1430.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	6943.4	0.0	6943.4
	% Fixture	82.9	0.0	82.9
Total	Lumens	8374.0	0.0	8374.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.6	1.3
10°-20°	300.8	3.6
20°-30°	513.3	6.1
30°-40°	821.7	9.8
40°-50°	1269.5	15.2
50°-60°	1800.6	21.5
60°-70°	2408.7	28.8
70°-80°	1046.1	12.5
80°-90°	106.7	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°	8374.0	100.0
0°-180°	8374.0	100.0



REPORT NUMBER: P200678

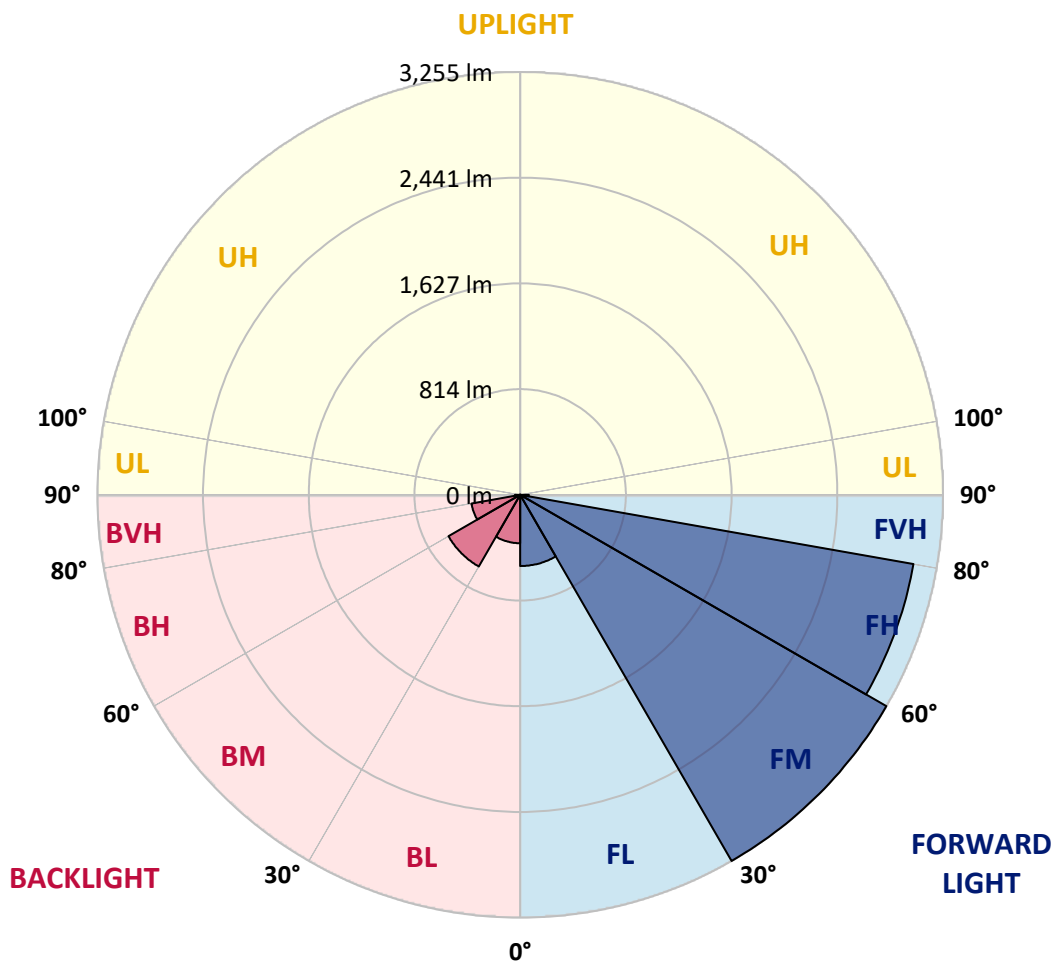
CATALOG NUMBER: GPC-AF-02-LED-E1-T3R-8030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	548.1	6.5			
FM	(30°-60°)	3254.6	38.9			
FH	(60°-80°)	3073.8	36.7			G2/5000
FVH	(80°-90°)	66.9	0.8			G1/100
BL	(0°-30°)	372.6	4.4	B1/500		
BM	(30°-60°)	637.3	7.6	B1/1000		
BH	(60°-80°)	381.0	4.5	B1/500		G1/500
BVH	(80°-90°)	39.8	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: P200678

CATALOG NUMBER: GPC-AF-02-LED-E1-T3R-8030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1193.3	1193.3	1193.3	1193.3	1193.3	1193.3	1193.3	1193.3	1193.3	1193.3	1193.3
2.5°	1055.6	1062.8	1068.7	1074.2	1085.3	1103.5	1124.5	1141.5	1166.0	1170.8	1183.8
5°	958.7	958.7	963.5	971.8	986.8	1014.1	1042.6	1080.6	1134.0	1146.6	1181.5
7.5°	911.6	912.0	914.8	921.9	935.0	959.9	991.1	1035.9	1108.3	1129.2	1188.6
10°	929.0	925.1	919.1	915.6	917.6	932.2	961.9	1011.7	1092.4	1119.3	1204.4
12.5°	1026.4	1018.8	998.3	971.0	944.9	934.2	951.6	1000.2	1085.7	1117.0	1225.4
15°	1185.4	1182.3	1143.9	1087.3	1024.0	971.0	959.1	995.9	1086.5	1119.7	1250.3
17.5°	1384.8	1380.5	1329.8	1247.5	1144.3	1041.0	985.6	999.5	1089.3	1124.5	1274.4
20°	1586.2	1572.8	1518.2	1420.1	1287.5	1136.4	1029.5	1008.6	1092.8	1129.6	1299.8
22.5°	1736.6	1725.5	1676.4	1581.1	1428.4	1246.7	1088.5	1024.4	1104.3	1144.7	1331.0
25°	1868.7	1869.5	1820.9	1728.7	1570.8	1363.9	1164.5	1066.7	1133.6	1175.5	1373.8
27.5°	2032.2	2022.7	1977.2	1885.8	1711.7	1482.2	1256.2	1124.9	1177.1	1219.4	1429.9
30°	2227.6	2220.9	2168.3	2064.6	1867.9	1609.2	1361.1	1192.5	1233.3	1277.2	1503.5
32.5°	2457.5	2454.3	2399.7	2266.4	2048.4	1758.7	1484.2	1282.0	1317.2	1362.7	1609.2
35°	2727.3	2727.7	2663.2	2503.0	2245.8	1932.8	1623.8	1397.1	1419.3	1466.7	1735.0
37.5°	2893.5	2913.7	2889.6	2726.2	2469.4	2127.5	1805.0	1549.8	1535.6	1583.5	1869.9
40°	2929.1	2953.7	3030.0	2946.9	2719.4	2342.0	1965.7	1696.6	1678.8	1737.4	2043.6
42.5°	2879.3	2913.3	3074.7	3133.3	2984.9	2606.3	2181.7	1914.6	1892.1	1970.8	2259.7
45°	2849.6	2874.9	3061.7	3230.2	3215.2	2905.0	2456.7	2188.4	2180.1	2283.4	2508.9
47.5°	2798.2	2821.1	3000.7	3252.8	3350.5	3178.8	2787.1	2523.2	2539.4	2674.7	2790.3
50°	2825.9	2835.4	2932.7	3195.4	3389.7	3379.4	3156.2	2910.9	2966.3	3135.3	3108.8
52.5°	2821.9	2846.4	2924.8	3101.2	3394.8	3503.2	3519.9	3343.4	3460.1	3654.0	3462.1
55°	2281.4	2326.5	2831.8	3077.5	3413.0	3624.7	3843.5	3799.2	4016.8	4242.7	3860.9
57.5°	2178.5	2207.0	2487.2	3127.4	3509.6	3856.6	4203.6	4300.9	4664.9	4927.3	4346.8
60°	2158.4	2193.6	2483.6	3188.3	3705.4	4234.4	4737.3	4908.3	5453.5	5740.7	4910.2
62.5°	2095.5	2133.4	2460.3	3180.4	3983.6	4757.1	5420.7	5554.0	6201.3	6480.6	5381.5
65°	1896.0	1931.7	2269.9	3052.6	4171.1	5315.0	6229.4	6145.9	6791.6	7001.7	5616.5
66°	1759.5	1794.4	2120.0	2902.2	4127.6	5473.3	6515.9	6329.1	6923.8	7088.4	5570.6
67.5°	1509.9	1537.2	1828.8	2565.5	3896.1	5517.6	6756.8	6466.8	6937.6	6995.8	5308.3
70°	954.0	961.9	1188.6	1771.0	2949.3	4785.2	6390.0	6124.9	6365.5	6208.0	4450.1
72.5°	413.9	411.1	570.6	900.9	1669.7	3210.8	5169.0	5053.9	4993.3	4634.1	3115.1
75°	230.3	233.4	296.4	418.2	678.6	1577.1	3381.4	3235.8	2732.1	2331.3	1412.5
77.5°	184.8	189.1	245.7	296.8	304.7	550.0	1582.3	1287.5	775.1	622.0	392.5
80°	146.0	153.9	214.5	231.1	205.4	226.7	511.2	408.7	306.6	281.3	203.4
82.5°	115.5	121.1	184.0	174.9	143.6	152.7	244.9	238.6	199.4	181.6	117.5
85°	83.1	93.4	151.1	131.8	94.2	102.9	162.6	155.9	114.3	93.4	51.8
87.5°	34.0	44.3	106.8	87.4	52.6	47.9	81.1	76.4	54.2	39.6	25.7
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: P200678

CATALOG NUMBER: GPC-AF-02-LED-E1-T3R-8030-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1193.3	1193.3	1193.3	1193.3	1193.3	1193.3	1193.3	1193.3	1193.3	1193.3	1193.3
2.5°	1192.1	1201.6	1213.9	1221.4	1225.4	1228.2	1232.5	1232.1	1233.3	1233.7	1235.3
5°	1200.1	1215.9	1233.7	1238.4	1238.4	1234.1	1229.7	1222.6	1219.8	1219.1	1219.8
7.5°	1220.6	1238.0	1253.5	1247.9	1236.1	1218.7	1196.1	1176.3	1165.6	1162.1	1161.3
10°	1246.7	1267.7	1274.1	1253.1	1218.3	1176.3	1131.6	1099.2	1080.6	1075.4	1073.8
12.5°	1278.4	1298.2	1289.5	1245.2	1180.7	1113.0	1051.3	999.5	960.7	948.4	947.6
15°	1313.2	1328.7	1298.2	1220.6	1124.5	1024.8	914.8	825.4	777.1	761.7	760.5
17.5°	1345.7	1353.6	1293.0	1177.9	1041.8	880.4	734.4	665.5	648.9	652.9	653.6
20°	1373.4	1373.4	1275.6	1116.6	911.6	690.0	597.9	596.7	608.5	620.4	622.8
22.5°	1403.8	1385.6	1245.2	1029.9	727.2	564.6	551.2	562.2	575.7	588.8	590.7
25°	1441.4	1395.5	1202.8	898.6	571.7	512.8	517.9	527.0	533.8	542.1	543.3
27.5°	1483.4	1408.2	1147.0	717.7	496.2	480.3	484.3	487.5	486.7	489.8	490.6
30°	1533.6	1422.8	1070.7	561.1	464.9	452.6	445.5	442.8	442.8	447.9	449.9
32.5°	1600.9	1444.6	961.1	480.7	449.9	432.9	409.9	399.6	403.6	421.0	424.9
35°	1674.9	1467.9	812.7	453.4	446.7	423.8	388.2	369.2	369.6	385.8	390.9
37.5°	1755.6	1497.6	650.1	448.3	453.8	424.2	376.7	350.6	339.9	339.9	341.9
40°	1858.8	1528.1	526.2	451.9	468.9	428.9	370.7	335.9	305.9	306.6	308.2
42.5°	1993.4	1554.2	459.8	459.4	487.1	435.2	370.3	316.5	290.4	308.2	324.4
45°	2142.9	1567.2	430.5	466.1	501.7	439.2	364.0	313.4	292.4	345.4	376.3
47.5°	2315.1	1559.7	414.3	468.5	505.3	439.2	356.9	320.9	306.2	400.0	436.0
50°	2503.8	1538.0	398.4	463.7	504.1	438.4	363.6	328.4	311.4	409.5	434.4
52.5°	2725.8	1519.8	381.8	453.4	495.8	434.0	371.5	325.2	295.2	372.3	389.7
55°	2979.0	1524.9	363.2	438.8	482.7	425.7	368.8	312.6	278.2	328.0	338.7
57.5°	3302.6	1586.2	341.1	420.2	464.9	411.9	358.9	306.6	273.0	297.5	303.9
60°	3663.9	1693.1	313.4	401.6	442.8	389.7	351.4	309.4	275.4	295.2	298.3
62.5°	3929.0	1755.2	289.6	374.3	412.7	365.2	341.9	313.0	281.7	303.5	302.7
65°	4001.0	1653.1	260.0	334.3	371.9	339.5	330.0	316.9	284.5	310.2	306.6
66°	3900.1	1543.1	246.9	315.7	351.4	326.8	324.1	316.5	283.3	311.0	305.1
67.5°	3655.2	1317.6	224.3	288.4	318.5	307.8	314.6	313.0	280.1	310.2	301.9
70°	2981.0	899.0	191.9	240.2	265.1	271.0	296.4	300.3	269.8	296.4	278.2
72.5°	2082.8	547.6	169.7	186.4	214.5	231.1	271.4	282.9	256.0	258.8	241.4
75°	1006.6	290.8	153.9	144.4	166.6	193.1	241.4	259.2	234.2	216.4	210.1
77.5°	313.8	177.7	130.6	116.3	130.6	155.9	201.8	227.1	208.5	181.2	178.8
80°	168.6	130.6	100.5	93.4	103.3	122.3	158.7	189.5	179.2	162.6	145.2
82.5°	111.2	84.7	74.4	72.4	78.7	93.4	117.9	157.1	157.1	139.3	101.3
85°	57.4	51.8	51.0	51.0	55.0	62.1	80.3	121.1	129.0	73.6	60.9
87.5°	28.5	29.7	27.7	28.9	30.9	30.5	38.4	60.9	72.8	44.7	37.2
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)