

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: P200214

Luminaire Tested: **GWC-AF-02-LED-E1-T4W-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-800
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10194.7 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

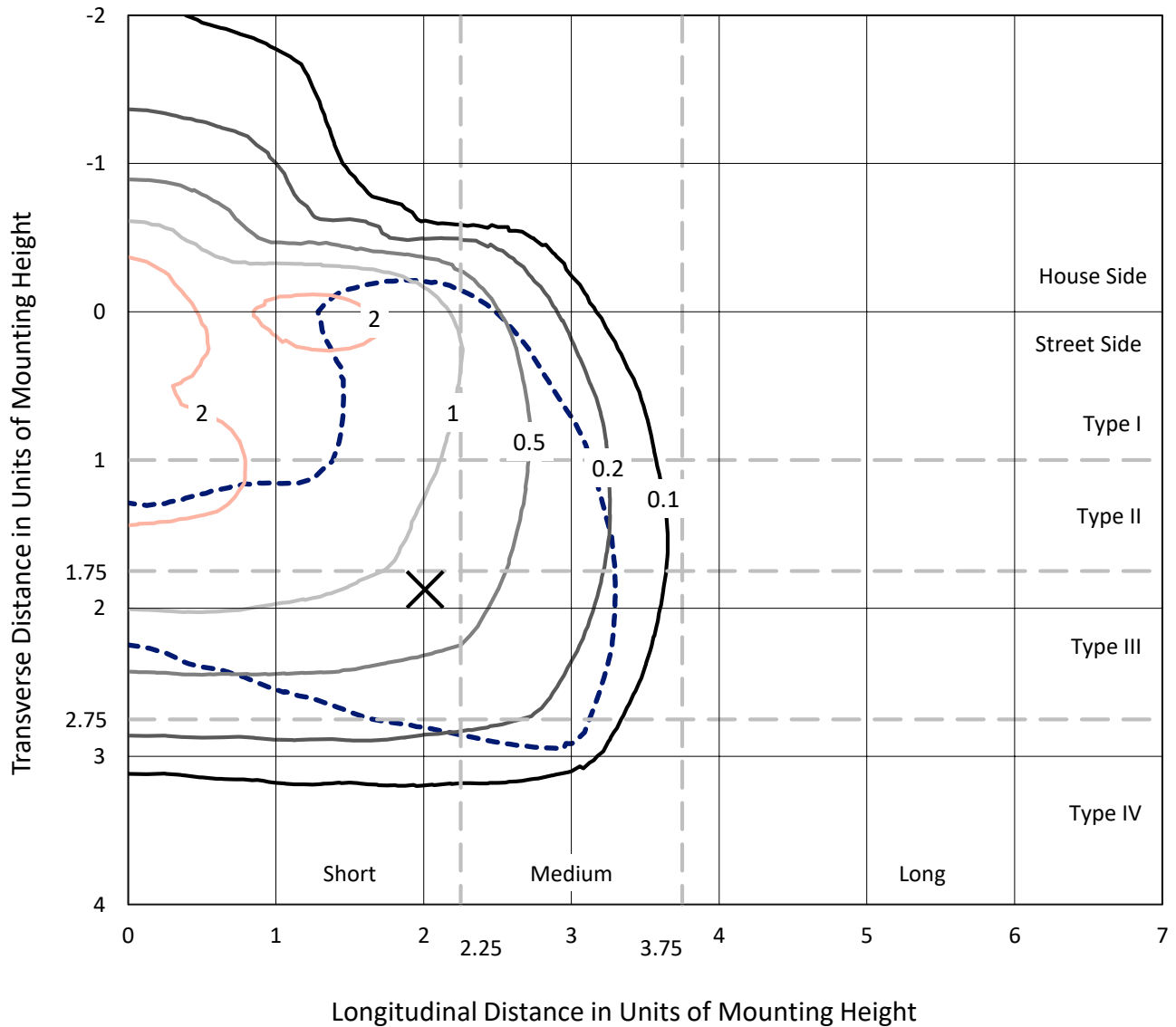
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

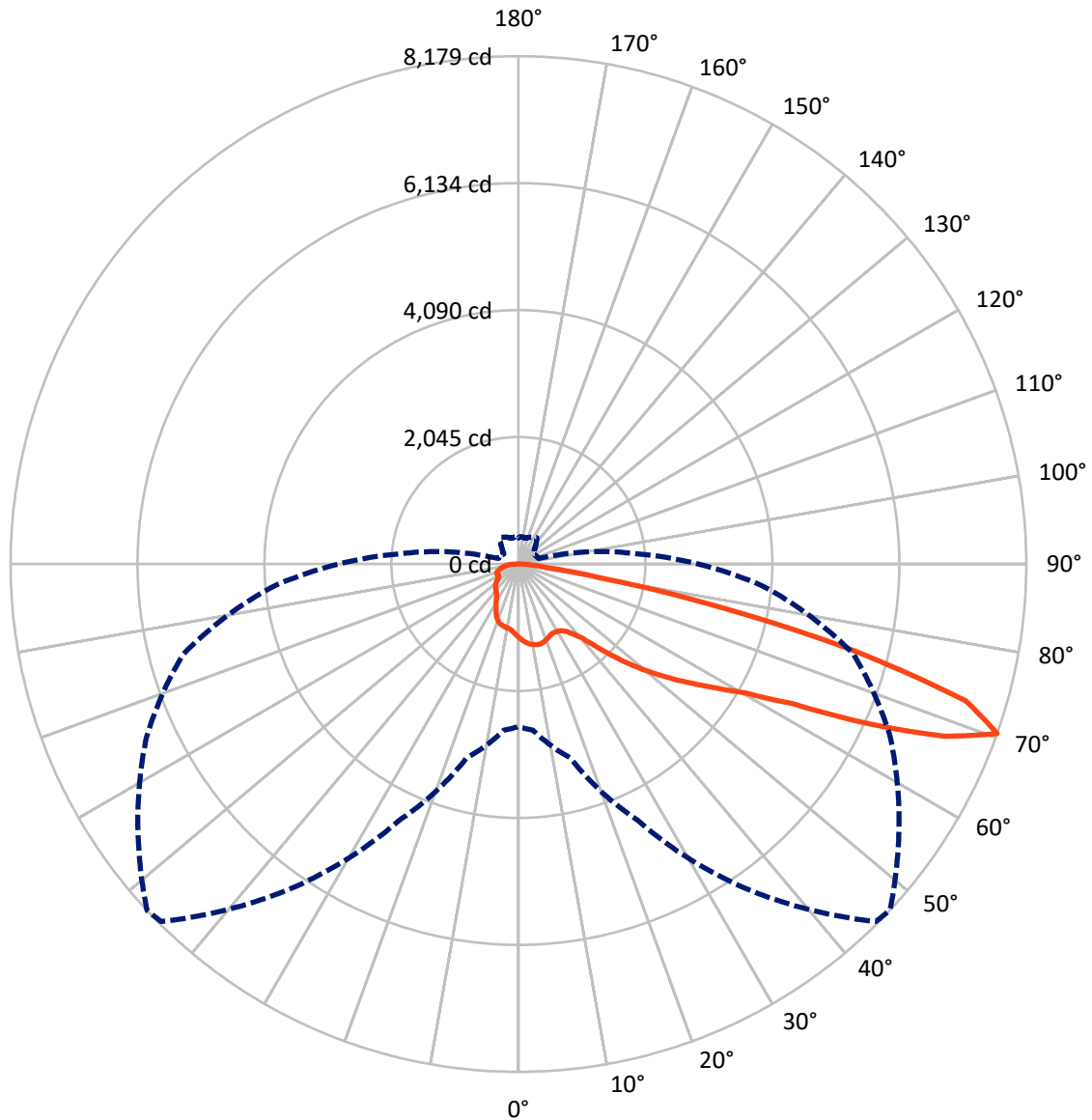
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2126.8	0.0	2126.8
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	8067.9	0.0	8067.9
	% Fixture	79.1	0.0	79.1
Total	Lumens	10194.7	0.0	10194.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	1.1
10°-20°	332.5	3.3
20°-30°	491.0	4.8
30°-40°	713.7	7.0
40°-50°	1284.4	12.6
50°-60°	2225.2	21.8
60°-70°	3175.9	31.2
70°-80°	1630.3	16.0
80°-90°	228.3	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°	10194.7	100.0
0°-180°	10194.7	100.0



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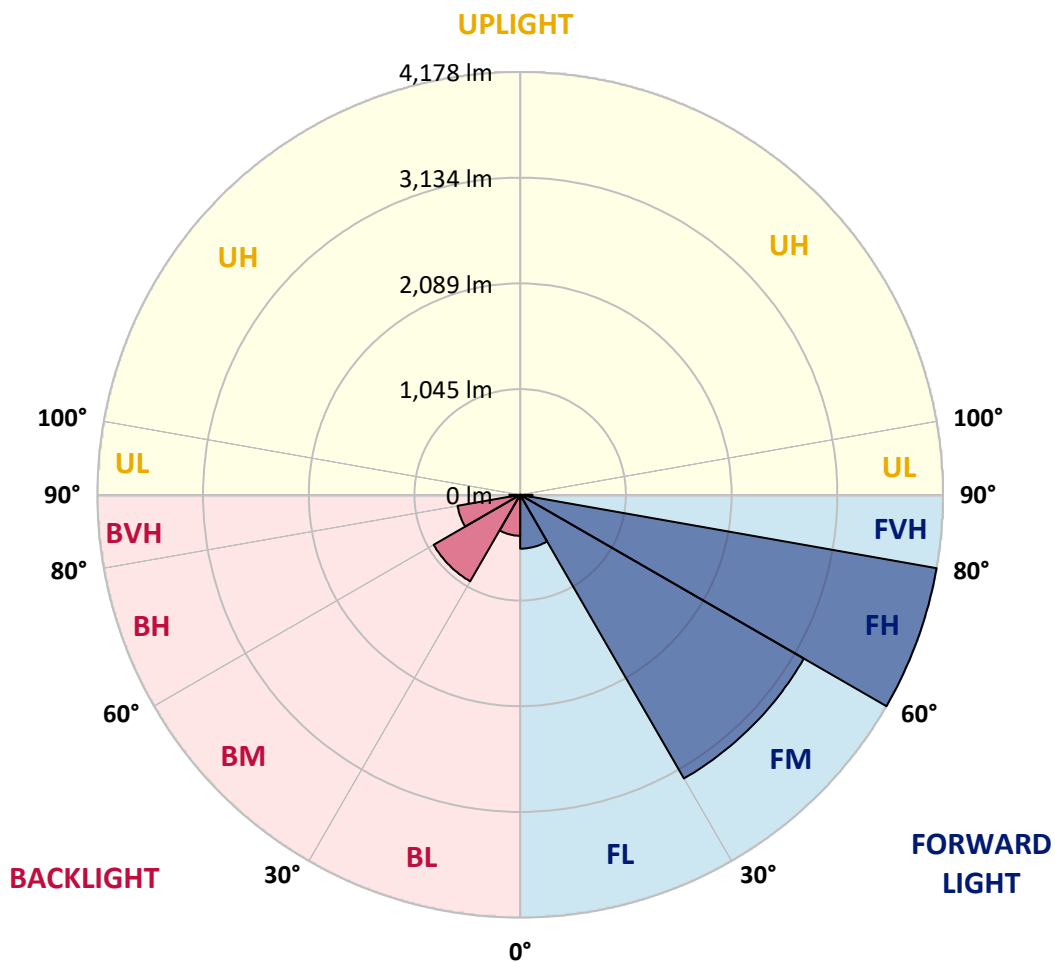
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	531.9	5.2			
FM	(30°-60°)	3236.1	31.7			
FH	(60°-80°)	4178.1	41.0			G2/5000
FVH	(80°-90°)	121.8	1.2			G2/225
BL	(0°-30°)	405.0	4.0	B1/500		
BM	(30°-60°)	987.2	9.7	B1/1000		
BH	(60°-80°)	628.2	6.2	B2/1000		G2/1000
BVH	(80°-90°)	106.5	1.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9
2.5°	1252.3	1249.8	1248.9	1246.9	1244.4	1232.0	1229.5	1220.6	1208.2	1195.3	1181.9
5°	1334.6	1334.1	1328.7	1318.8	1302.9	1275.6	1269.2	1247.4	1218.1	1189.9	1161.6
7.5°	1407.1	1402.7	1392.2	1372.4	1344.6	1307.4	1298.4	1268.3	1228.1	1189.4	1151.1
10°	1460.2	1457.7	1434.9	1407.6	1371.4	1330.2	1319.8	1286.1	1242.0	1192.9	1145.2
12.5°	1490.4	1485.4	1459.1	1426.4	1383.2	1343.1	1332.7	1298.4	1248.9	1192.9	1136.8
15°	1488.4	1484.9	1458.6	1422.9	1379.3	1344.1	1334.6	1300.5	1247.4	1187.9	1125.9
17.5°	1448.7	1450.2	1427.9	1392.7	1356.9	1330.2	1321.8	1290.0	1237.5	1177.9	1113.0
20°	1379.3	1386.3	1371.4	1340.2	1320.3	1301.9	1296.5	1269.7	1222.1	1163.6	1099.1
22.5°	1309.9	1316.3	1310.4	1284.1	1281.1	1270.2	1267.2	1247.9	1208.7	1154.6	1090.7
25°	1258.7	1264.8	1263.8	1240.9	1249.8	1249.3	1246.9	1237.5	1205.8	1154.6	1092.1
27.5°	1244.9	1246.9	1244.9	1224.1	1236.4	1246.4	1244.4	1242.9	1214.7	1169.0	1111.0
30°	1292.5	1289.5	1274.2	1232.0	1243.4	1257.3	1255.4	1256.3	1241.5	1206.7	1153.2
32.5°	1482.5	1469.1	1420.5	1301.9	1271.7	1279.1	1280.1	1296.5	1298.9	1264.8	1218.6
35°	1766.6	1751.8	1688.8	1489.4	1359.5	1333.7	1333.7	1358.5	1373.3	1348.0	1320.3
37.5°	2067.7	2051.3	2017.7	1749.3	1543.9	1428.4	1425.9	1443.3	1464.7	1470.6	1477.6
40°	2410.0	2392.6	2402.0	2041.0	1801.4	1592.6	1557.3	1545.0	1602.5	1640.7	1696.3
42.5°	2784.4	2776.5	2780.0	2365.8	2094.5	1838.1	1788.0	1724.0	1793.4	1861.4	1978.0
45°	3131.2	3138.0	3134.5	2713.5	2420.9	2137.7	2084.6	1960.6	2028.5	2145.1	2335.1
47.5°	3434.7	3405.9	3450.5	3093.4	2786.4	2473.0	2407.5	2241.3	2310.2	2454.1	2775.5
50°	3803.1	3799.1	3733.7	3600.3	3228.3	2809.7	2723.9	2531.5	2638.6	2838.5	3330.5
52.5°	4190.5	4118.6	4058.6	3994.6	3697.0	3154.9	3049.7	2820.6	3024.5	3275.9	4007.0
55°	4269.9	4237.7	4312.0	4419.7	4148.9	3513.5	3391.0	3183.2	3458.9	3775.9	4787.2
57.5°	4439.5	4439.0	4592.7	4784.6	4614.1	3894.0	3770.4	3621.1	3947.5	4348.8	5615.5
60°	4554.1	4586.3	4872.0	5244.5	5070.9	4333.3	4219.8	4126.5	4502.9	4989.0	6387.2
62.5°	4614.1	4657.7	5047.5	5430.9	5716.7	5064.9	4951.4	4817.0	5238.0	5691.3	6838.5
65°	4364.6	4450.4	5020.2	5592.2	6282.0	6250.8	6199.7	5963.6	6157.0	6246.3	6675.4
67.5°	3674.2	3762.0	4425.6	5441.9	6685.8	7394.5	7405.4	7002.2	6722.5	6293.9	5612.5
70°	2617.7	2686.7	3235.8	4562.5	6378.3	8142.0	8179.2	7480.8	6609.9	5581.7	3921.2
72.5°	1242.9	1285.0	1804.9	2969.4	5061.5	7460.0	7531.9	6869.8	5620.4	4132.5	2139.2
75°	456.7	469.7	610.1	1263.2	2935.7	5501.4	5586.2	4924.6	3725.8	2057.4	814.9
77.5°	273.7	282.2	342.2	533.2	1154.6	3144.4	3270.0	2678.3	1628.3	765.8	400.8
80°	191.5	197.4	245.5	331.8	545.5	1198.3	1309.9	1093.1	648.8	484.6	291.6
82.5°	129.4	132.5	172.6	224.2	362.5	428.0	461.8	486.1	437.4	360.6	184.9
85°	84.8	87.8	117.0	147.8	230.7	221.2	226.2	286.2	319.4	245.0	102.7
87.5°	48.6	50.6	70.4	78.9	113.0	93.7	94.7	150.8	204.4	165.2	62.5
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°	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9
2.5°	1178.4	1172.0	1157.6	1148.7	1140.3	1138.2	1134.8	1134.4	1133.8	1133.8	1132.3
5°	1152.1	1141.2	1118.9	1106.5	1096.1	1095.1	1094.7	1097.1	1098.1	1099.1	1097.6
7.5°	1135.3	1120.4	1092.6	1074.8	1062.3	1059.4	1064.4	1075.7	1083.2	1086.2	1084.7
10°	1124.8	1106.5	1074.3	1055.0	1044.5	1043.0	1049.4	1062.8	1078.3	1084.2	1083.7
12.5°	1113.0	1092.1	1057.9	1037.6	1031.6	1034.6	1043.0	1055.5	1071.3	1080.7	1081.3
15°	1101.1	1076.8	1041.6	1023.7	1021.2	1025.2	1033.1	1042.6	1055.0	1064.4	1065.4
17.5°	1086.7	1061.4	1026.2	1007.8	1005.9	1007.8	1008.3	1013.2	1021.2	1030.1	1032.7
20°	1071.3	1045.6	1008.8	990.4	981.5	973.6	964.6	965.7	968.1	977.1	979.1
22.5°	1060.4	1034.6	995.4	970.2	946.3	922.5	904.7	902.1	903.2	910.6	913.1
25°	1061.4	1034.1	992.0	948.3	896.2	858.1	834.2	830.2	829.8	835.2	838.7
27.5°	1080.7	1053.4	1004.8	926.0	841.7	785.1	759.8	756.9	752.9	754.4	758.3
30°	1123.9	1098.5	1036.1	903.2	782.7	713.7	687.4	684.5	679.0	676.5	679.4
32.5°	1194.3	1173.5	1081.8	881.4	723.6	652.7	625.9	619.5	616.0	613.1	615.5
35°	1311.3	1302.4	1142.7	857.5	671.6	605.6	581.2	571.3	566.4	571.8	575.8
37.5°	1494.8	1499.9	1222.6	820.3	631.4	574.4	554.0	542.6	535.2	539.6	544.1
40°	1754.8	1758.2	1310.9	767.7	596.7	556.0	534.2	523.8	513.3	505.4	504.9
42.5°	2096.0	2060.8	1397.7	710.7	556.5	544.6	520.3	507.4	491.5	469.7	465.2
45°	2500.7	2377.2	1463.6	645.3	511.4	530.7	504.9	487.0	462.3	438.4	436.0
47.5°	2967.0	2717.0	1495.9	577.4	469.2	510.4	486.1	457.8	426.6	414.6	413.2
50°	3536.3	3120.2	1511.2	511.4	432.5	483.5	458.8	425.5	399.3	396.8	395.3
52.5°	4184.6	3605.3	1516.2	457.3	402.2	448.9	436.5	404.3	383.4	385.3	385.3
55°	4863.1	4106.2	1448.7	418.1	374.5	413.2	421.6	395.8	378.4	386.4	389.3
57.5°	5486.0	4550.1	1236.4	387.9	348.2	385.9	416.1	403.8	391.8	424.0	426.1
60°	5964.1	4812.5	923.5	360.6	328.9	376.4	430.5	433.9	437.0	513.8	524.3
62.5°	6064.4	4725.2	634.8	339.2	319.9	384.4	456.7	457.3	453.8	507.4	513.8
65°	5604.5	4173.1	461.8	327.3	312.5	398.7	479.2	468.7	445.9	486.5	474.6
67.5°	4450.9	3144.0	384.4	318.4	301.6	397.7	502.9	479.2	441.4	476.6	457.3
70°	2889.0	1901.1	342.2	311.0	288.7	378.9	516.8	478.1	428.5	443.4	420.6
72.5°	1409.5	850.1	313.9	300.0	275.3	352.6	516.3	469.2	415.1	414.1	401.7
75°	551.6	389.3	288.2	283.7	252.5	322.8	502.5	456.3	399.3	383.4	378.9
77.5°	322.8	277.7	255.4	259.4	225.2	293.1	482.1	433.9	377.5	358.5	353.6
80°	235.1	207.9	217.7	224.2	192.4	263.4	454.8	406.7	353.1	362.5	355.6
82.5°	150.8	133.9	176.6	183.0	160.2	233.1	425.0	378.0	319.0	289.7	282.7
85°	76.9	84.8	131.4	139.3	123.5	191.5	388.8	339.7	280.2	241.0	245.0
87.5°	43.2	58.0	83.8	93.7	87.3	147.3	315.5	280.2	228.6	186.0	163.7
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)