

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: P192360

Luminaire Tested: **GLEON-AF-02-LED-E1-T4W-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192360  
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: GLEON-AF-02-LED-E1-T4W-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 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: 9771 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

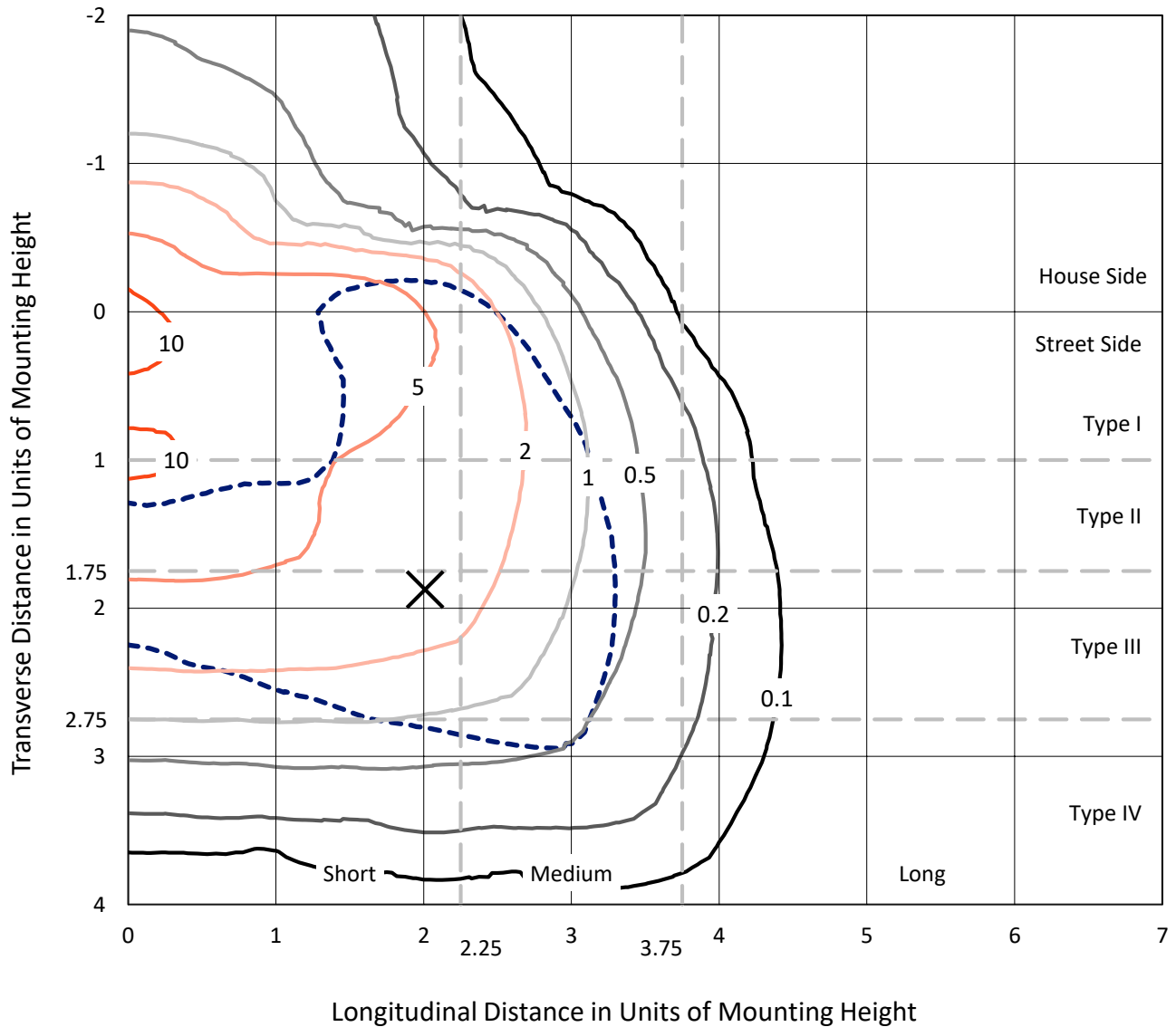


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

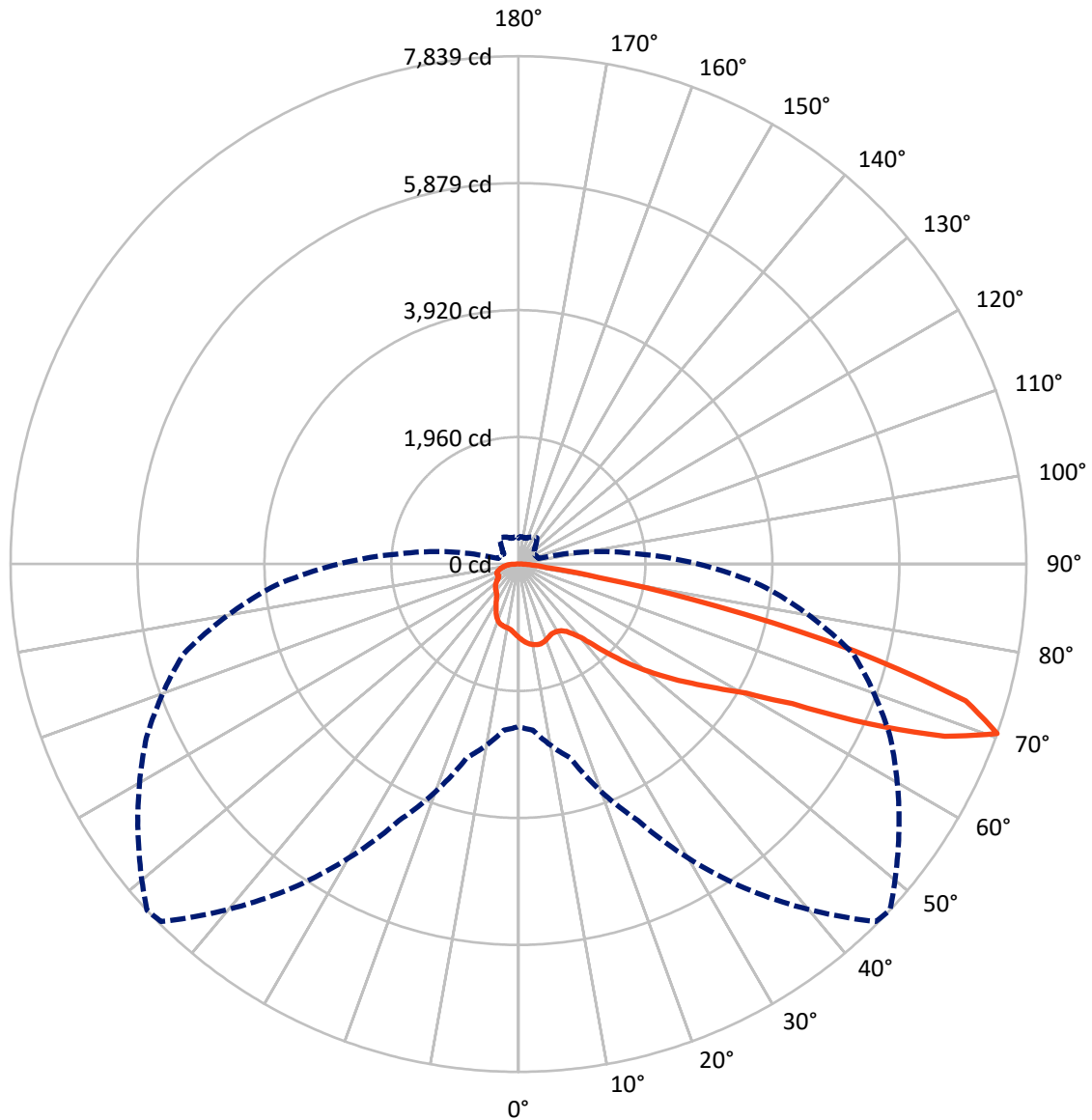


Based on 10 foot mounting height. Maximum calculated value = 13.1 fc  
 Type IV - Short - Semi-Cutoff

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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
<b>House Side</b>	Lumens	2038.4	0.0	2038.4
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	7732.6	0.0	7732.6
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	9771.0	0.0	9771.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.6	1.1
10°-20°	318.7	3.3
20°-30°	470.6	4.8
30°-40°	684.0	7.0
40°-50°	1231.0	12.6
50°-60°	2132.7	21.8
60°-70°	3043.9	31.2
70°-80°	1562.6	16.0
80°-90°	218.8	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°	9771.0	100.0
0°-180°	9771.0	100.0



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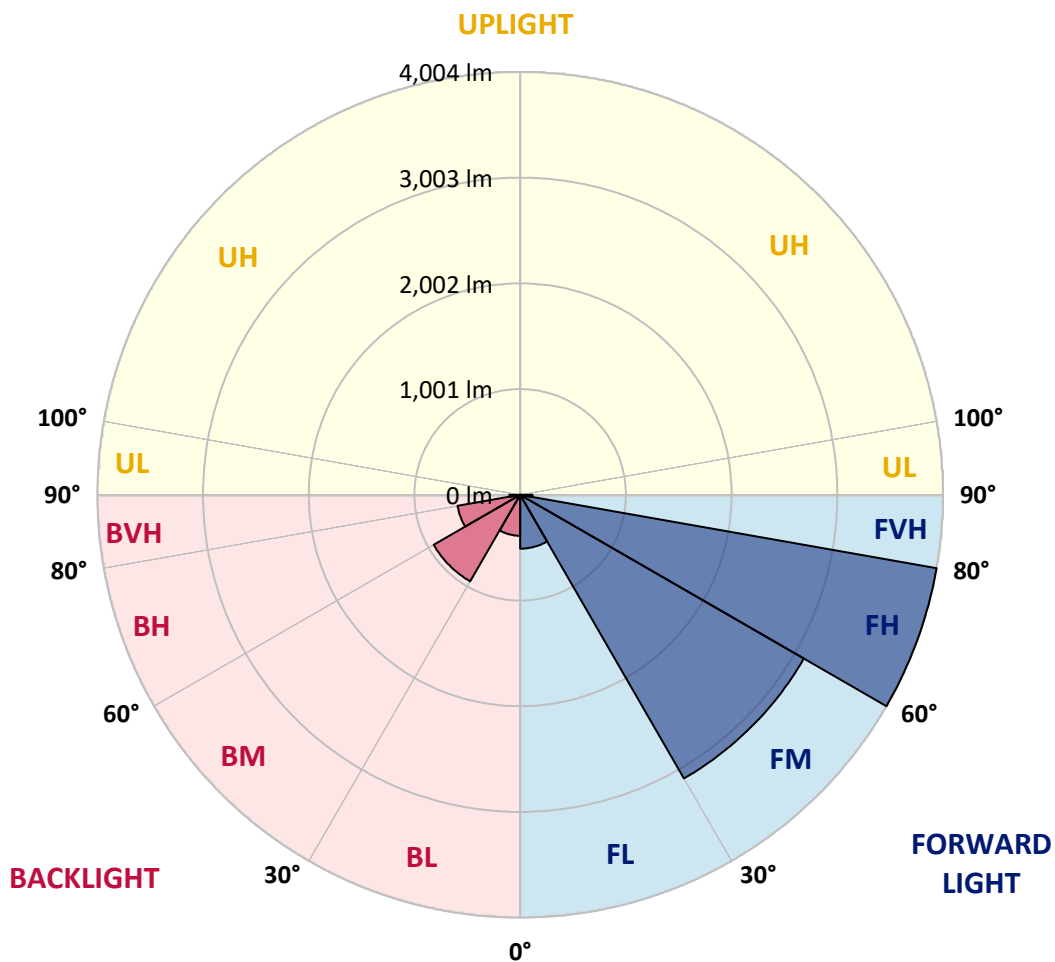
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	509.8	5.2			
FM	(30°-60°)	3101.6	31.7			
FH	(60°-80°)	4004.4	41.0			G2/5000
FVH	(80°-90°)	116.7	1.2			G2/225
BL	(0°-30°)	388.1	4.0	B1/500		
BM	(30°-60°)	946.2	9.7	B1/1000		
BH	(60°-80°)	602.1	6.2	B2/1000		G2/1000
BVH	(80°-90°)	102.0	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°	1133.7	1133.7	1133.7	1133.7	1133.7	1133.7	1133.7	1133.7	1133.7	1133.7	1133.7
2.5°	1200.3	1197.9	1197.0	1195.1	1192.7	1180.8	1178.4	1169.9	1158.0	1145.6	1132.8
5°	1279.2	1278.7	1273.5	1264.0	1248.8	1222.6	1216.5	1195.5	1167.5	1140.4	1113.3
7.5°	1348.6	1344.3	1334.3	1315.3	1288.7	1253.1	1244.5	1215.5	1177.0	1139.9	1103.3
10°	1399.5	1397.1	1375.2	1349.1	1314.4	1274.9	1264.9	1232.6	1190.3	1143.2	1097.6
12.5°	1428.5	1423.7	1398.5	1367.1	1325.8	1287.3	1277.3	1244.5	1197.0	1143.2	1089.5
15°	1426.6	1423.2	1398.0	1363.8	1322.0	1288.2	1279.2	1246.4	1195.5	1138.5	1079.1
17.5°	1388.5	1390.0	1368.6	1334.8	1300.6	1274.9	1266.8	1236.4	1186.0	1129.0	1066.7
20°	1322.0	1328.6	1314.4	1284.4	1265.4	1247.8	1242.6	1216.9	1171.3	1115.2	1053.4
22.5°	1255.4	1261.6	1255.9	1230.7	1227.9	1217.4	1214.6	1196.0	1158.5	1106.6	1045.3
25°	1206.5	1212.2	1211.2	1189.4	1197.9	1197.4	1195.1	1186.0	1155.6	1106.6	1046.7
27.5°	1193.2	1195.1	1193.2	1173.2	1185.1	1194.6	1192.7	1191.3	1164.2	1120.4	1064.8
30°	1238.8	1235.9	1221.2	1180.8	1191.7	1205.0	1203.1	1204.1	1189.8	1156.6	1105.2
32.5°	1420.9	1408.0	1361.4	1247.8	1218.8	1226.0	1226.9	1242.6	1245.0	1212.2	1168.0
35°	1693.2	1679.0	1618.6	1427.5	1303.0	1278.3	1278.3	1302.0	1316.3	1292.0	1265.4
37.5°	1981.8	1966.1	1933.8	1676.6	1479.8	1369.0	1366.7	1383.3	1403.7	1409.5	1416.1
40°	2309.8	2293.1	2302.2	1956.1	1726.5	1526.4	1492.6	1480.8	1535.9	1572.5	1625.7
42.5°	2668.7	2661.1	2664.4	2267.5	2007.5	1761.7	1713.7	1652.4	1718.9	1784.0	1895.7
45°	3001.0	3007.6	3004.3	2600.7	2320.2	2048.8	1997.9	1879.1	1944.2	2055.9	2238.0
47.5°	3291.9	3264.3	3307.1	2964.8	2670.6	2370.2	2307.4	2148.2	2214.2	2352.1	2660.1
50°	3645.1	3641.3	3578.5	3450.7	3094.1	2692.9	2610.7	2426.3	2528.9	2720.5	3192.1
52.5°	4016.3	3947.4	3889.9	3828.6	3543.4	3023.8	2923.0	2703.4	2898.8	3139.8	3840.5
55°	4092.4	4061.5	4132.8	4236.0	3976.4	3367.5	3250.1	3050.9	3315.2	3618.9	4588.2
57.5°	4255.0	4254.5	4401.9	4585.8	4422.3	3732.1	3613.7	3470.6	3783.4	4168.0	5382.1
60°	4364.8	4395.7	4669.5	5026.5	4860.1	4153.2	4044.4	3955.0	4315.8	4781.7	6121.7
62.5°	4422.3	4464.1	4837.8	5205.2	5479.0	4854.4	4745.5	4616.7	5020.3	5454.8	6554.3
65°	4183.2	4265.4	4811.6	5359.7	6020.9	5991.0	5942.0	5715.8	5901.2	5986.7	6397.9
67.5°	3521.5	3605.6	4241.7	5215.7	6407.9	7087.2	7097.6	6711.2	6443.1	6032.4	5379.2
70°	2509.0	2575.0	3101.3	4372.9	6113.2	7803.6	7839.2	7169.9	6335.2	5349.7	3758.2
72.5°	1191.3	1231.7	1729.8	2846.0	4851.1	7149.9	7218.9	6584.2	5386.8	3960.7	2050.2
75°	437.8	450.2	584.7	1210.7	2813.7	5272.7	5354.0	4719.9	3570.9	1971.8	781.0
77.5°	262.4	270.5	328.0	511.0	1106.6	3013.8	3134.1	2567.0	1560.6	734.0	384.1
80°	183.5	189.2	235.3	318.0	522.9	1148.5	1255.4	1047.7	621.8	464.4	279.5
82.5°	124.1	126.9	165.4	214.9	347.5	410.2	442.6	465.9	419.3	345.6	177.3
85°	81.3	84.1	112.2	141.7	221.0	212.0	216.8	274.3	306.1	234.8	98.4
87.5°	46.6	48.5	67.5	75.6	108.4	89.8	90.8	144.5	195.8	158.3	59.9
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°	1133.7	1133.7	1133.7	1133.7	1133.7	1133.7	1133.7	1133.7	1133.7	1133.7	1133.7
2.5°	1129.5	1123.3	1109.5	1100.9	1092.9	1091.0	1087.6	1087.2	1086.7	1086.7	1085.3
5°	1104.3	1093.8	1072.4	1060.5	1050.6	1049.6	1049.1	1051.5	1052.5	1053.4	1052.0
7.5°	1088.1	1073.8	1047.2	1030.1	1018.2	1015.4	1020.1	1031.1	1038.2	1041.0	1039.6
10°	1078.1	1060.5	1029.6	1011.1	1001.1	999.7	1005.9	1018.7	1033.4	1039.1	1038.7
12.5°	1066.7	1046.7	1013.9	994.5	988.8	991.6	999.7	1011.6	1026.8	1035.8	1036.3
15°	1055.3	1032.0	998.3	981.1	978.8	982.6	990.2	999.2	1011.1	1020.1	1021.1
17.5°	1041.5	1017.3	983.5	965.9	964.0	965.9	966.4	971.2	978.8	987.3	989.7
20°	1026.8	1002.1	966.9	949.3	940.7	933.1	924.6	925.5	927.9	936.5	938.4
22.5°	1016.3	991.6	954.1	929.8	907.0	884.2	867.1	864.7	865.6	872.8	875.1
25°	1017.3	991.1	950.7	908.9	859.0	822.4	799.6	795.8	795.3	800.5	803.8
27.5°	1035.8	1009.7	963.1	887.5	806.7	752.5	728.3	725.4	721.6	723.0	726.8
30°	1077.2	1052.9	993.0	865.6	750.1	684.0	658.9	656.0	650.8	648.4	651.2
32.5°	1144.7	1124.7	1036.8	844.7	693.6	625.6	599.9	593.7	590.4	587.5	589.9
35°	1256.9	1248.3	1095.2	821.9	643.6	580.4	557.1	547.6	542.9	548.1	551.9
37.5°	1432.7	1437.5	1171.8	786.3	605.1	550.5	531.0	520.0	512.9	517.2	521.5
40°	1681.8	1685.2	1256.4	735.9	571.9	532.9	512.0	502.0	492.0	484.4	483.9
42.5°	2008.9	1975.1	1339.6	681.2	533.4	521.9	498.7	486.3	471.1	450.2	445.9
45°	2396.8	2278.4	1402.8	618.4	490.1	508.6	483.9	466.8	443.0	420.2	417.8
47.5°	2843.6	2604.0	1433.7	553.3	449.7	489.1	465.9	438.8	408.8	397.4	396.0
50°	3389.3	2990.5	1448.4	490.1	414.5	463.5	439.7	407.9	382.7	380.3	378.9
52.5°	4010.6	3455.4	1453.2	438.3	385.5	430.2	418.3	387.4	367.5	369.4	369.4
55°	4660.9	3935.5	1388.5	400.7	358.9	396.0	404.1	379.3	362.7	370.3	373.2
57.5°	5258.0	4361.0	1185.1	371.7	333.7	369.8	398.8	386.9	375.5	406.4	408.3
60°	5716.2	4612.4	885.1	345.6	315.2	360.8	412.6	415.9	418.8	492.5	502.5
62.5°	5812.3	4528.8	608.5	325.1	306.6	368.4	437.8	438.3	435.0	486.3	492.5
65°	5371.6	3999.7	442.6	313.7	299.5	382.2	459.2	449.2	427.4	466.3	454.9
67.5°	4265.9	3013.3	368.4	305.2	289.0	381.2	482.0	459.2	423.1	456.8	438.3
70°	2769.0	1822.1	328.0	298.1	276.7	363.2	495.3	458.2	410.7	425.0	403.1
72.5°	1351.0	814.8	300.9	287.6	263.8	338.0	494.9	449.7	397.9	396.9	385.0
75°	528.6	373.2	276.2	271.9	242.0	309.5	481.5	437.3	382.7	367.5	363.2
77.5°	309.5	266.2	244.8	248.6	215.8	280.9	462.1	415.9	361.8	343.7	338.9
80°	225.3	199.2	208.7	214.9	184.4	252.4	435.9	389.8	338.5	347.5	340.8
82.5°	144.5	128.3	169.2	175.4	153.5	223.4	407.4	362.2	305.7	277.6	271.0
85°	73.7	81.3	126.0	133.6	118.4	183.5	372.7	325.6	268.6	231.0	234.8
87.5°	41.4	55.6	80.3	89.8	83.7	141.2	302.3	268.6	219.1	178.3	156.9
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)