

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: P194051

Luminaire Tested: **GLEON-AF-03-LED-E1-T4FT-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194051  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-03-LED-E1-T4FT-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9829 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 96  
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

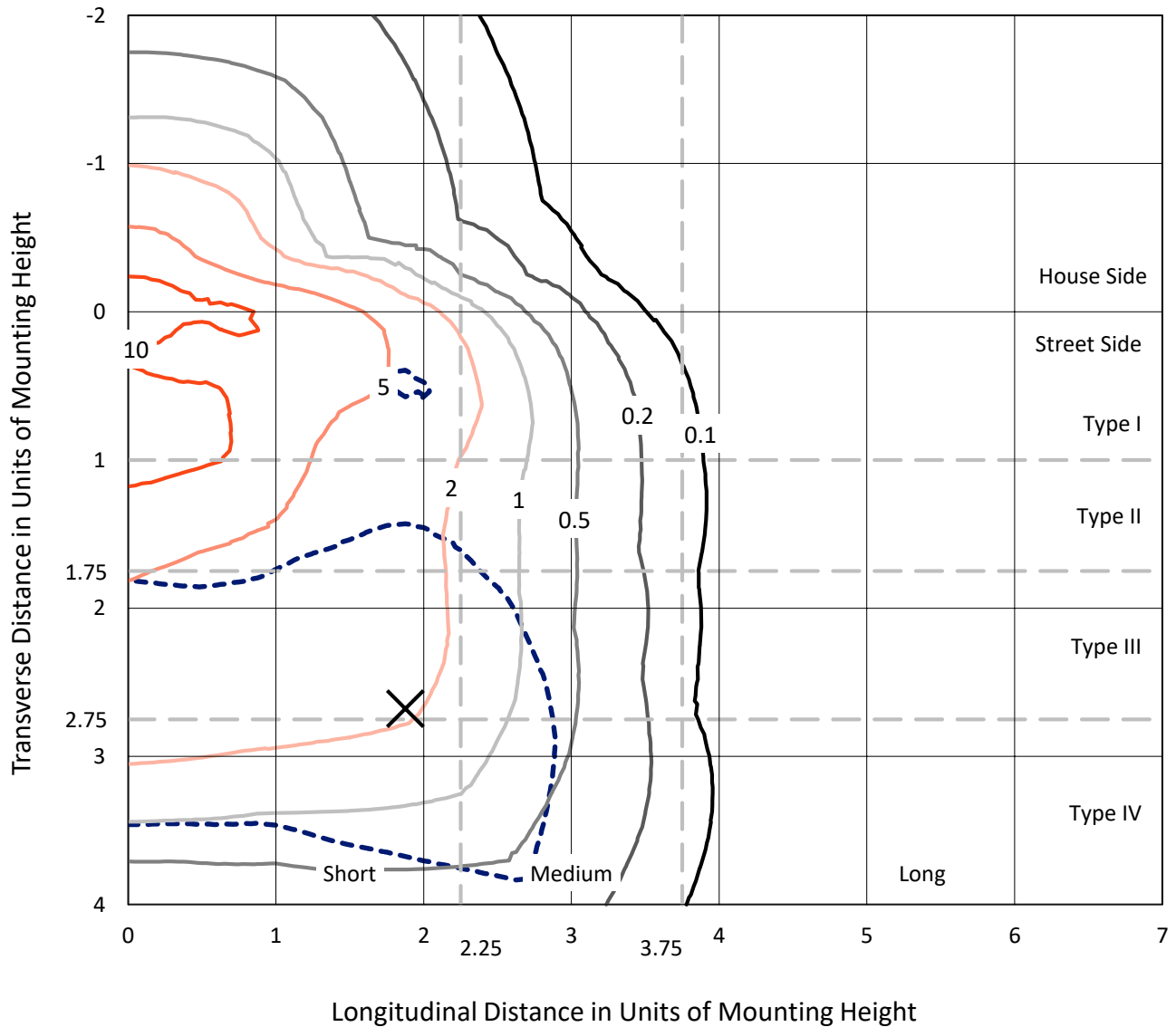


REPORT NUMBER: P194051

CATALOG NUMBER: GLEON-AF-03-LED-E1-T4FT-8030-600

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

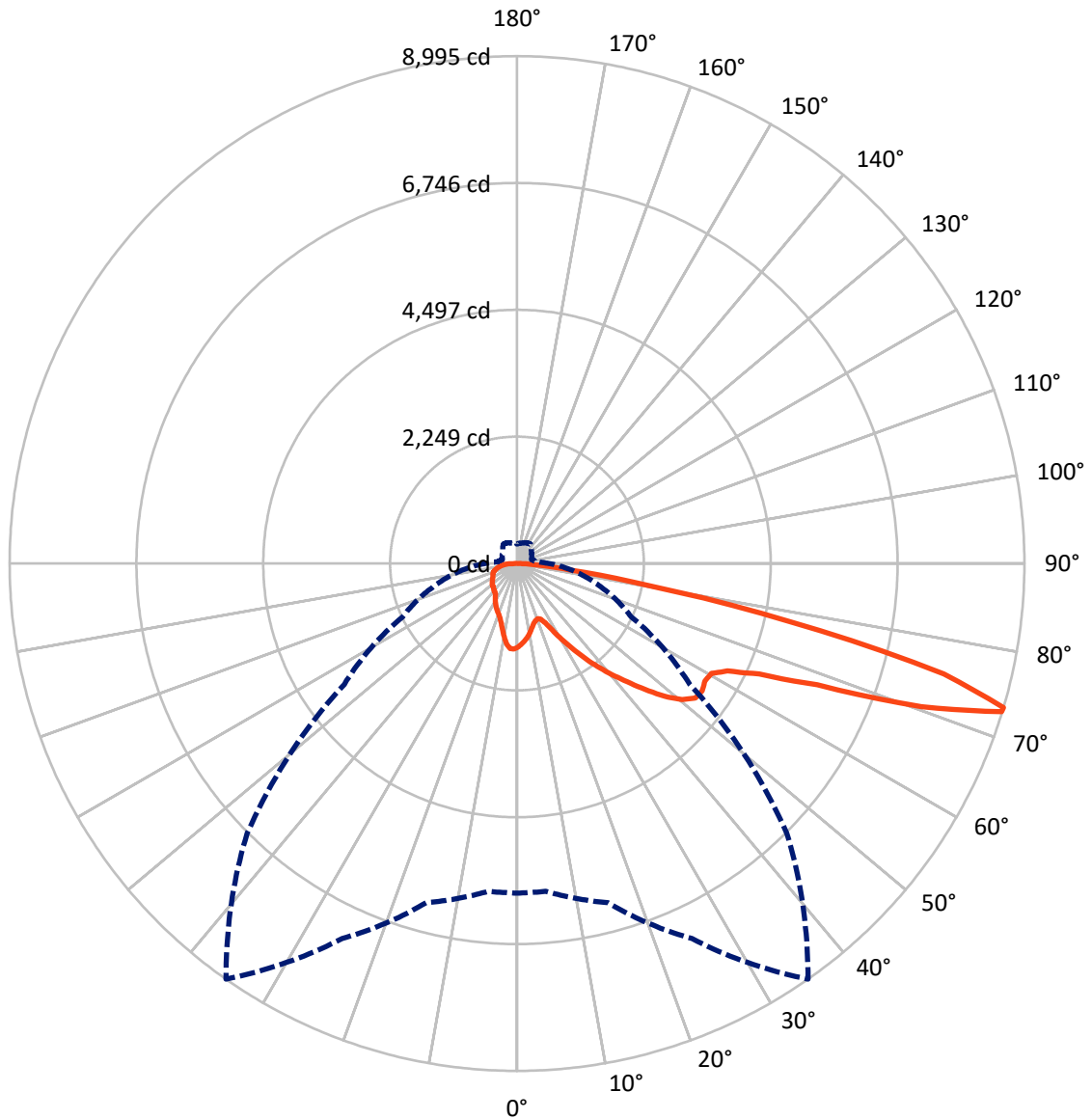


Based on 10 foot mounting height. Maximum calculated value = 14.8 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P194051

CATALOG NUMBER: GLEON-AF-03-LED-E1-T4FT-8030-600

### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P194051

CATALOG NUMBER: GLEON-AF-03-LED-E1-T4FT-8030-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1874.7	0.0	1874.7
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	7954.3	0.0	7954.3
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	9829.0	0.0	9829.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.3	1.4
10°-20°	335.2	3.4
20°-30°	541.9	5.5
30°-40°	908.7	9.2
40°-50°	1400.7	14.3
50°-60°	1879.1	19.1
60°-70°	2503.4	25.5
70°-80°	1909.3	19.4
80°-90°	216.4	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°	9829.0	100.0
0°-180°	9829.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P194051

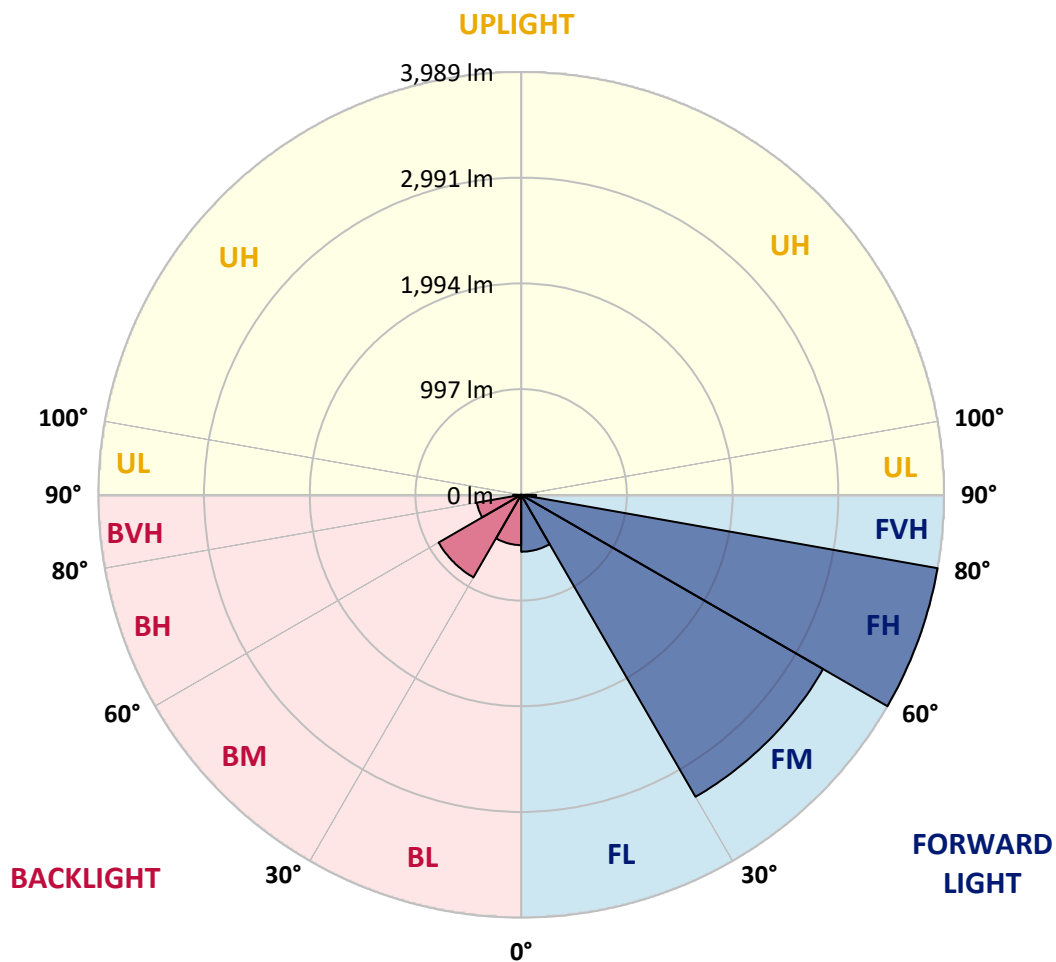
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	537.0	5.5			
FM (30°-60°)	3288.8	33.5			
FH (60°-80°)	3988.6	40.6			G2/5000
FVH (80°-90°)	139.9	1.4			G2/225
BL (0°-30°)	474.4	4.8	B1/500		
BM (30°-60°)	899.6	9.2	B1/1000		
BH (60°-80°)	424.1	4.3	B1/500		G1/500
BVH (80°-90°)	76.5	0.8			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





REPORT NUMBER: P194051

CATALOG NUMBER: GLEON-AF-03-LED-E1-T4FT-8030-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1483.5	1483.5	1483.5	1483.5	1483.5	1483.5	1483.5	1483.5	1483.5	1483.5	1483.5
2.5°	1425.0	1427.8	1424.5	1428.7	1435.8	1443.4	1448.6	1456.1	1464.6	1476.4	1479.3
5°	1357.9	1362.2	1362.2	1369.7	1383.4	1395.7	1407.0	1419.3	1437.2	1457.5	1465.6
7.5°	1284.3	1286.7	1290.9	1302.3	1322.1	1339.5	1355.6	1375.4	1400.0	1426.9	1441.0
10°	1195.6	1198.9	1205.5	1221.5	1248.4	1272.5	1295.6	1323.0	1354.2	1387.7	1405.6
12.5°	1132.8	1131.9	1134.7	1146.5	1170.1	1199.4	1232.9	1267.8	1306.0	1345.2	1366.9
15°	1111.6	1106.4	1095.5	1092.7	1105.4	1134.7	1173.4	1216.3	1262.1	1309.3	1336.2
17.5°	1124.8	1115.8	1086.1	1064.4	1062.5	1084.7	1125.7	1173.9	1226.7	1284.3	1317.8
20°	1207.9	1186.6	1113.5	1062.9	1045.5	1056.3	1092.2	1143.2	1205.5	1282.0	1324.9
22.5°	1406.6	1375.4	1220.1	1126.2	1067.2	1054.0	1080.9	1135.2	1207.9	1311.2	1366.0
25°	1695.9	1651.5	1403.3	1283.8	1162.1	1091.7	1097.9	1153.6	1241.4	1379.2	1445.3
27.5°	1924.4	1895.6	1642.6	1506.2	1334.8	1193.7	1153.1	1199.8	1309.8	1490.6	1558.1
30°	2060.3	2042.8	1898.4	1758.2	1555.2	1356.1	1258.8	1286.7	1416.9	1644.9	1700.6
32.5°	2217.9	2207.6	2136.8	2007.9	1793.1	1569.4	1426.4	1416.5	1560.4	1830.4	1855.9
35°	2381.2	2377.9	2336.4	2243.9	2048.5	1850.7	1648.7	1581.7	1716.7	2023.0	2007.0
37.5°	2533.2	2527.6	2503.5	2449.7	2315.6	2152.8	1875.3	1751.1	1885.2	2207.1	2135.8
40°	2813.1	2768.8	2686.2	2645.6	2585.6	2407.2	2055.1	1909.2	2059.8	2382.7	2247.2
42.5°	3154.4	3082.2	2928.3	2872.6	2864.1	2607.8	2177.8	2062.6	2235.9	2556.8	2356.7
45°	3423.0	3355.0	3222.4	3152.0	3183.2	2789.5	2301.0	2226.4	2417.1	2739.5	2469.5
47.5°	3709.5	3602.8	3427.2	3448.4	3516.4	2961.3	2426.6	2402.5	2615.8	2943.9	2609.7
50°	3719.8	3638.2	3561.3	3688.2	3793.9	3119.5	2583.7	2587.0	2858.9	3201.1	2796.1
52.5°	3504.1	3486.7	3608.9	3808.6	3961.0	3244.5	2762.6	2777.7	3170.0	3496.6	3001.0
55°	3428.6	3408.8	3549.9	3766.6	3983.7	3347.9	2956.6	2984.0	3546.1	3808.1	3200.6
57.5°	3612.7	3568.8	3578.2	3746.7	3928.5	3461.2	3168.1	3223.3	3954.9	4080.5	3329.0
60°	4127.2	4033.3	3854.8	3850.6	3958.2	3631.1	3412.6	3480.1	4379.7	4210.7	3279.0
62.5°	4848.9	4754.9	4420.8	4203.2	4187.1	3911.5	3712.8	3730.7	4625.1	4034.2	2973.6
65°	5630.0	5546.0	5172.7	4865.4	4717.2	4375.9	4061.6	3842.6	4544.9	3548.5	2439.3
67.5°	6578.3	6488.1	6167.2	5883.5	5741.0	5125.5	4306.5	3735.4	4035.6	2748.9	1753.5
70°	7241.5	7149.4	7022.9	7252.8	7601.6	6206.8	4338.2	3299.8	3014.2	1827.1	1055.4
72.5°	6376.3	6333.3	6564.1	7532.2	8985.0	6862.9	3921.4	2402.5	1750.7	970.0	610.8
73°	5842.0	5832.5	6226.2	7336.3	8994.9	6761.9	3738.7	2233.0	1501.4	858.1	558.4
75°	2638.0	2714.0	3576.8	5603.6	7814.9	5572.0	2631.4	1281.0	848.2	592.8	421.5
77.5°	633.9	660.3	1119.1	2661.1	4935.3	3320.5	1192.3	633.4	542.3	418.7	307.7
80°	270.0	279.0	430.9	983.2	2323.7	1337.2	549.4	424.3	375.2	292.2	215.7
82.5°	150.1	159.5	244.5	446.0	937.9	456.0	335.1	295.5	246.9	176.1	140.2
85°	85.0	90.2	143.0	249.2	397.4	183.1	200.6	196.4	139.2	90.6	68.9
87.5°	40.1	43.4	68.9	115.6	155.8	71.7	102.0	112.3	87.3	55.2	35.9
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: P194051

CATALOG NUMBER: GLEON-AF-03-LED-E1-T4FT-8030-600

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1483.5	1483.5	1483.5	1483.5	1483.5	1483.5	1483.5	1483.5	1483.5	1483.5
2.5°	1482.6	1491.1	1501.0	1506.2	1510.9	1516.5	1522.2	1522.2	1523.1	1523.6
5°	1472.2	1489.6	1505.2	1511.8	1513.2	1513.2	1511.8	1504.3	1497.7	1500.5
7.5°	1450.5	1475.9	1489.2	1486.8	1468.9	1448.1	1430.6	1409.4	1398.5	1396.7
10°	1419.3	1448.6	1450.9	1427.3	1383.0	1338.6	1301.8	1265.9	1248.9	1244.7
12.5°	1384.9	1411.8	1396.7	1348.0	1276.8	1212.1	1165.4	1129.0	1113.0	1108.7
15°	1357.0	1375.4	1337.2	1260.7	1171.0	1102.6	1063.9	1037.0	1025.7	1022.4
17.5°	1342.4	1346.1	1276.3	1172.9	1077.6	1020.5	996.4	983.7	979.4	977.0
20°	1349.5	1323.0	1218.2	1091.3	1001.1	961.0	955.3	952.0	951.1	949.7
22.5°	1384.9	1315.9	1164.9	1013.9	934.1	916.6	921.3	920.9	919.9	919.0
25°	1448.1	1322.1	1113.0	940.2	877.9	874.1	882.6	882.6	878.9	878.9
27.5°	1531.6	1334.8	1054.9	870.4	826.9	827.4	834.0	832.1	827.9	825.1
30°	1633.6	1342.8	987.0	807.6	779.3	777.4	779.3	771.3	758.5	757.6
32.5°	1737.9	1332.9	908.1	751.9	728.8	724.5	723.1	711.8	697.1	692.9
35°	1832.3	1296.6	827.9	707.5	680.6	671.2	677.8	674.0	660.8	657.5
37.5°	1901.2	1229.1	755.7	668.4	646.2	643.8	648.1	649.5	633.9	630.6
40°	1947.5	1137.5	693.8	635.3	639.6	630.6	616.4	606.5	601.8	600.4
42.5°	1984.8	1042.2	641.9	619.7	641.0	615.0	584.3	568.3	576.8	580.6
45°	2027.7	949.2	598.5	600.4	633.9	597.1	562.2	546.6	549.9	550.8
47.5°	2086.7	835.9	551.8	569.2	610.3	584.8	548.5	526.3	510.7	503.6
50°	2168.4	701.9	503.2	534.3	587.2	575.8	527.2	503.6	474.8	468.2
52.5°	2225.0	576.8	463.0	505.0	566.4	557.9	510.2	479.6	449.3	443.7
55°	2194.3	479.1	428.1	472.5	539.0	535.7	496.1	455.0	431.4	426.7
57.5°	2040.9	417.2	401.2	441.8	505.5	516.8	477.2	434.2	417.2	413.9
60°	1748.3	378.5	384.2	421.0	478.1	498.0	458.3	422.9	411.6	409.2
62.5°	1356.5	352.6	371.5	405.9	456.9	484.7	447.9	421.5	417.2	414.4
65°	971.9	331.8	357.8	390.8	437.5	472.5	444.2	419.6	420.6	418.2
67.5°	660.3	313.4	341.3	373.8	418.7	461.6	439.0	413.0	424.8	422.0
70°	462.1	295.5	321.9	352.1	395.1	446.5	429.5	403.1	402.1	390.8
72.5°	360.6	271.9	295.5	321.9	364.9	425.3	410.6	380.9	365.3	353.5
73°	344.1	266.2	288.9	315.3	358.2	420.1	405.4	374.8	357.3	346.4
75°	284.6	241.7	262.4	286.0	329.9	395.5	380.0	346.9	324.7	318.1
77.5°	223.7	206.7	226.6	247.8	290.8	359.7	342.2	310.6	298.3	292.6
80°	165.7	171.3	188.8	207.7	252.0	321.4	305.9	274.2	329.0	315.3
82.5°	116.6	129.8	145.8	162.8	211.5	284.1	265.3	232.7	240.7	200.1
85°	68.9	85.0	100.1	114.7	152.5	235.5	219.0	185.5	152.0	144.9
87.5°	40.1	47.2	51.4	66.6	104.8	177.5	154.3	137.4	78.8	53.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)