

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: P193220

Luminaire Tested: **GLEON-AF-02-LED-E1-T3R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193220
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: GLEON-AF-02-LED-E1-T3R-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 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: 9730.6 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 85
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

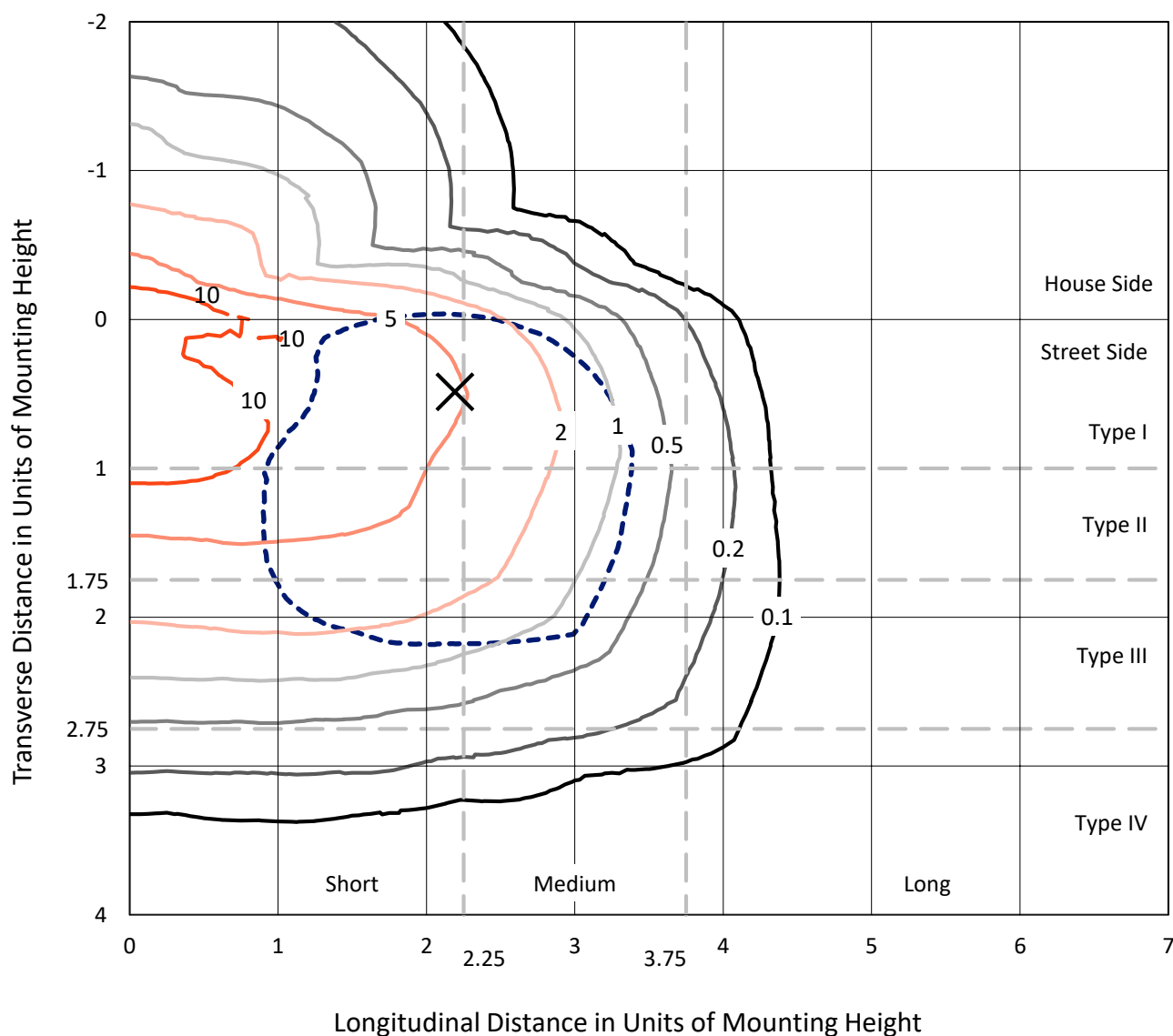


REPORT NUMBER: P193220

CATALOG NUMBER: GLEON-AF-02-LED-E1-T3R-7030-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

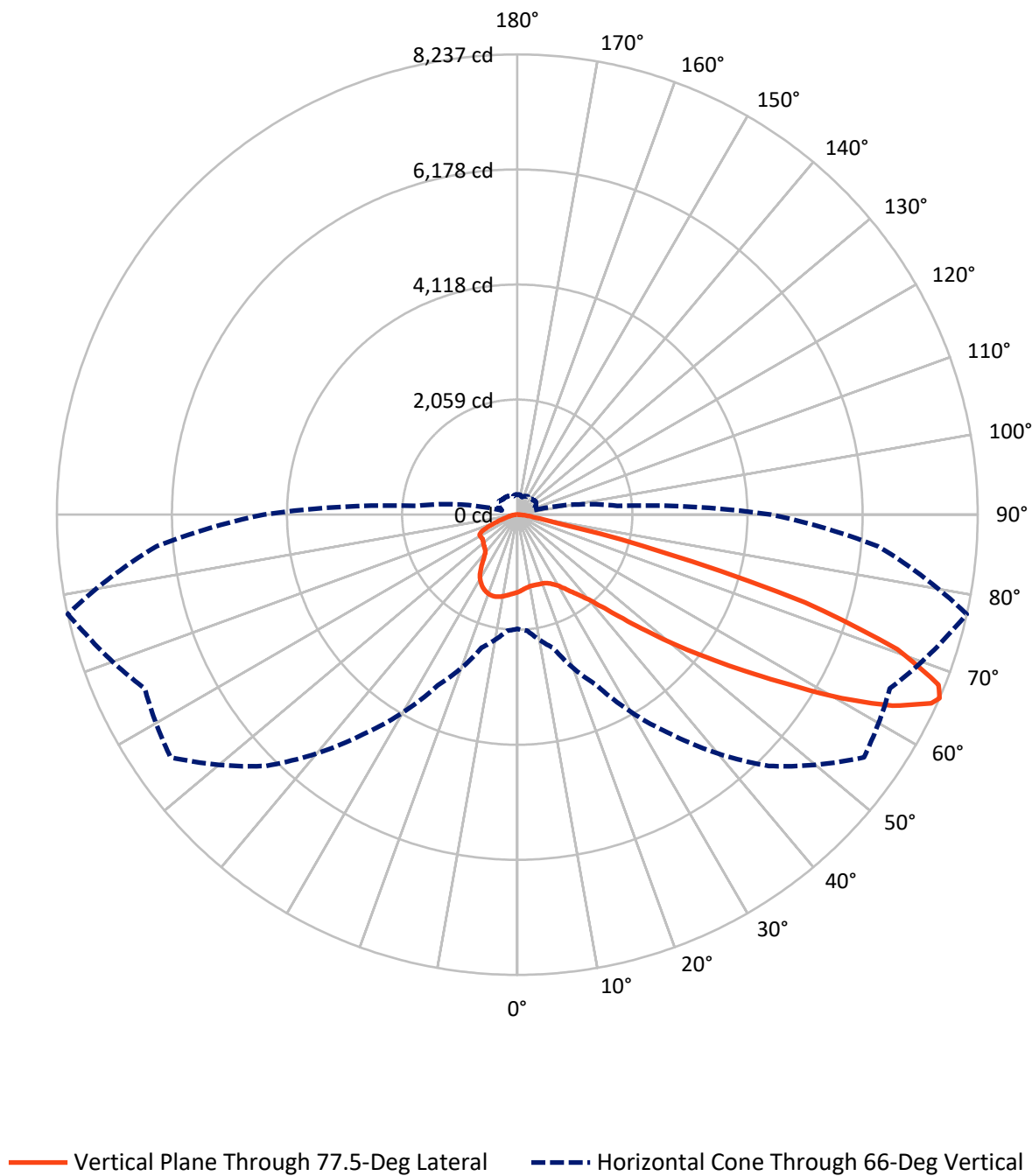


Based on 10 foot mounting height. Maximum calculated value = 17.1 fc
Type III - Short - Full Cutoff

REPORT NUMBER: P193220

CATALOG NUMBER: GLEON-AF-02-LED-E1-T3R-7030-800

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1662.4	0.0	1662.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	8068.2	0.0	8068.2
	% Fixture	82.9	0.0	82.9
Total	Lumens	9730.6	0.0	9730.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.9	1.3
10°-20°	349.5	3.6
20°-30°	596.5	6.1
30°-40°	954.9	9.8
40°-50°	1475.2	15.2
50°-60°	2092.3	21.5
60°-70°	2798.9	28.8
70°-80°	1215.5	12.5
80°-90°	123.9	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°	9730.6	100.0
0°-180°	9730.6	100.0

Coefficient of Utilization



REPORT NUMBER: P193220

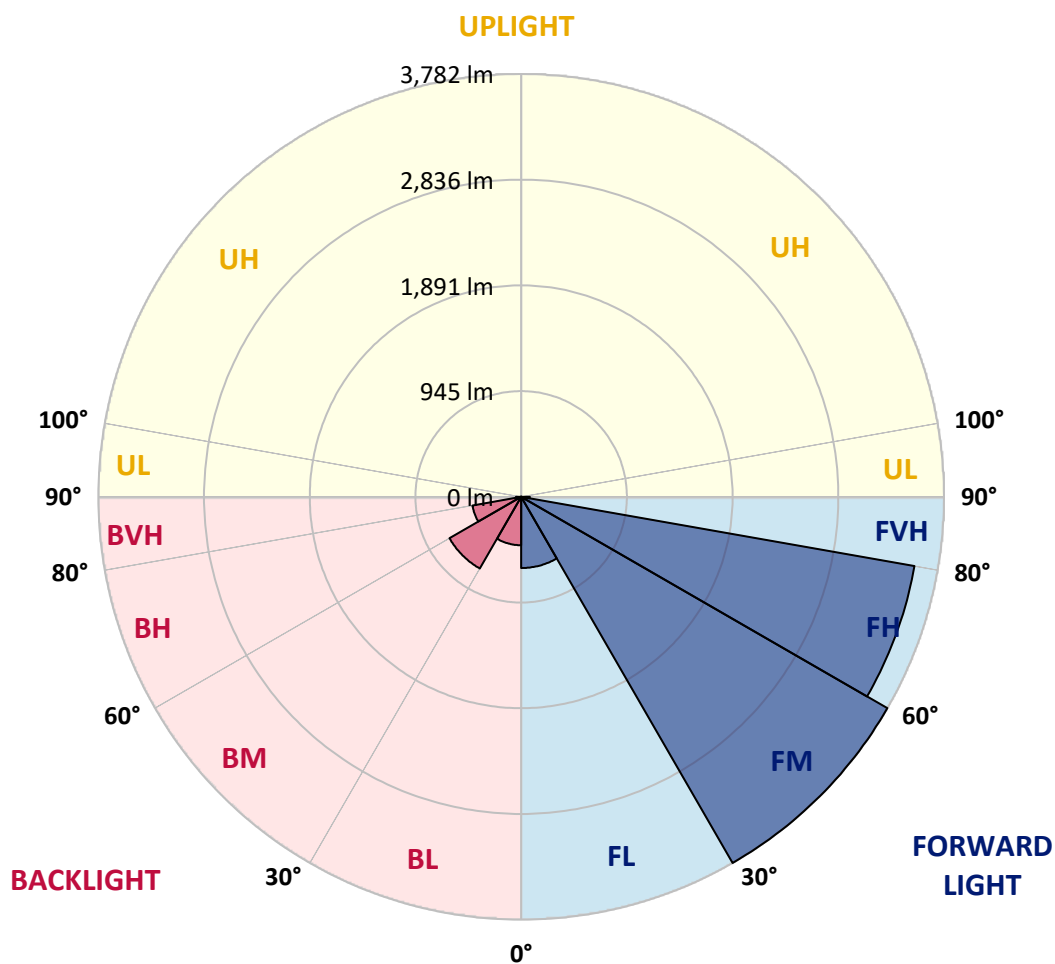
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	636.9	6.5			
FM	(30°-60°)	3781.8	38.9			
FH	(60°-80°)	3571.7	36.7			G2/5000
FVH	(80°-90°)	77.7	0.8			G1/100
BL	(0°-30°)	433.0	4.4	B1/500		
BM	(30°-60°)	740.5	7.6	B1/1000		
BH	(60°-80°)	442.7	4.5	B1/500		G1/500
BVH	(80°-90°)	46.2	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: P193220

CATALOG NUMBER: GLEON-AF-02-LED-E1-T3R-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6
2.5°	1226.7	1234.9	1241.8	1248.3	1261.2	1282.2	1306.6	1326.4	1355.0	1360.5	1375.6
5°	1114.0	1114.0	1119.6	1129.2	1146.6	1178.4	1211.4	1255.6	1317.6	1332.4	1372.9
7.5°	1059.3	1059.9	1063.0	1071.3	1086.5	1115.4	1151.7	1203.7	1287.8	1312.2	1381.1
10°	1079.5	1074.9	1068.0	1063.8	1066.2	1083.2	1117.7	1175.6	1269.4	1300.7	1399.5
12.5°	1192.7	1184.0	1160.0	1128.3	1097.9	1085.5	1105.7	1162.3	1261.6	1297.9	1423.8
15°	1377.4	1373.8	1329.1	1263.5	1189.9	1128.3	1114.5	1157.3	1262.5	1301.2	1452.8
17.5°	1609.2	1604.2	1545.3	1449.7	1329.6	1209.6	1145.2	1161.4	1265.8	1306.6	1480.9
20°	1843.2	1827.6	1764.1	1650.2	1496.1	1320.5	1196.3	1172.0	1269.9	1312.6	1510.3
22.5°	2017.9	2005.0	1948.1	1837.2	1659.7	1448.8	1264.7	1190.4	1283.2	1330.1	1546.7
25°	2171.5	2172.4	2115.8	2008.7	1825.2	1584.8	1353.0	1239.5	1317.2	1366.0	1596.3
27.5°	2361.4	2350.3	2297.5	2191.3	1988.9	1722.3	1459.8	1307.1	1367.8	1417.0	1661.7
30°	2588.5	2580.7	2519.5	2399.2	2170.6	1869.9	1581.6	1385.7	1433.1	1484.2	1747.2
32.5°	2855.6	2852.0	2788.6	2633.5	2380.2	2043.7	1724.5	1489.6	1530.6	1583.5	1869.9
35°	3169.2	3169.6	3094.7	2908.5	2609.6	2246.0	1886.9	1623.5	1649.2	1704.3	2016.1
37.5°	3362.2	3385.7	3357.6	3167.8	2869.3	2472.2	2097.4	1800.9	1784.3	1840.0	2172.8
40°	3403.7	3432.2	3520.9	3424.4	3160.0	2721.3	2284.2	1971.5	1950.9	2018.9	2374.8
42.5°	3345.7	3385.3	3572.9	3640.9	3468.6	3028.4	2535.2	2224.8	2198.7	2290.1	2625.7
45°	3311.2	3340.7	3557.7	3753.6	3736.1	3375.6	2854.7	2543.0	2533.2	2653.4	2915.4
47.5°	3251.4	3278.1	3486.9	3779.8	3893.4	3693.7	3238.6	2932.0	2950.8	3108.0	3242.3
50°	3283.7	3294.7	3407.8	3713.0	3938.8	3926.9	3667.7	3382.5	3446.9	3643.2	3612.4
52.5°	3279.1	3307.6	3398.6	3603.7	3944.8	4070.8	4090.1	3885.0	4020.6	4246.0	4022.9
55°	2651.0	2703.4	3290.6	3576.0	3966.0	4212.0	4466.2	4414.7	4667.5	4930.1	4486.4
57.5°	2531.5	2564.6	2890.1	3634.0	4078.1	4481.4	4884.6	4997.6	5420.7	5725.5	5051.0
60°	2508.0	2548.9	2886.0	3704.8	4305.7	4920.5	5504.8	5703.5	6337.0	6670.9	5705.7
62.5°	2435.0	2479.1	2858.9	3695.5	4629.0	5527.8	6298.8	6453.7	7205.9	7530.5	6253.4
65°	2203.2	2244.6	2637.7	3547.1	4846.8	6176.1	7238.7	7141.6	7891.9	8136.1	6526.4
66°	2044.6	2085.0	2463.5	3372.4	4796.3	6360.0	7571.4	7354.5	8045.6	8236.7	6473.1
67.5°	1754.4	1786.2	2125.1	2981.1	4527.3	6411.5	7851.5	7514.5	8061.5	8129.1	6168.2
70°	1108.6	1117.7	1381.1	2057.9	3427.1	5560.4	7425.3	7117.2	7396.8	7213.8	5171.0
72.5°	481.0	477.7	662.9	1046.9	1940.2	3730.9	6006.4	5872.5	5802.3	5384.9	3619.8
75°	267.5	271.3	344.3	485.9	788.6	1832.6	3929.2	3759.9	3174.7	2709.0	1641.4
77.5°	214.7	219.7	285.5	344.8	354.0	639.0	1838.7	1496.1	900.8	722.8	456.0
80°	169.7	178.8	249.2	268.6	238.6	263.5	594.1	474.9	356.3	326.9	236.3
82.5°	134.3	140.7	213.8	203.2	166.9	177.4	284.6	277.2	231.7	211.0	136.6
85°	96.5	108.5	175.6	153.1	109.5	119.5	189.0	181.2	132.9	108.5	60.2
87.5°	39.6	51.5	124.1	101.6	61.1	55.6	94.3	88.7	63.1	46.0	29.9
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: P193220

CATALOG NUMBER: GLEON-AF-02-LED-E1-T3R-7030-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6
2.5°	1385.3	1396.4	1410.5	1419.3	1423.8	1427.2	1432.2	1431.8	1433.1	1433.6	1435.4
5°	1394.4	1412.8	1433.6	1439.1	1439.1	1434.0	1429.0	1420.7	1417.4	1416.5	1417.4
7.5°	1418.4	1438.6	1456.5	1450.1	1436.3	1416.1	1389.9	1367.0	1354.5	1350.3	1349.5
10°	1448.8	1473.2	1480.5	1456.1	1415.7	1367.0	1314.9	1277.2	1255.6	1249.6	1247.8
12.5°	1485.5	1508.6	1498.4	1446.9	1372.0	1293.3	1221.6	1161.4	1116.3	1102.1	1101.2
15°	1526.1	1544.0	1508.6	1418.4	1306.6	1190.8	1063.0	959.1	903.0	885.0	883.7
17.5°	1563.7	1572.9	1502.6	1368.7	1210.6	1023.0	853.4	773.3	754.0	758.6	759.6
20°	1595.8	1595.8	1482.3	1297.5	1059.3	801.9	694.7	693.4	707.1	720.9	723.7
22.5°	1631.2	1610.2	1446.9	1196.8	845.0	656.1	640.5	653.4	669.0	684.2	686.4
25°	1675.0	1621.6	1397.7	1044.1	664.4	595.9	601.8	612.4	620.3	629.9	631.3
27.5°	1723.7	1636.2	1332.9	833.9	576.6	558.2	562.8	566.4	565.5	569.2	570.2
30°	1782.0	1653.3	1244.1	651.9	540.2	526.0	517.7	514.5	514.5	520.5	522.8
32.5°	1860.2	1678.7	1116.7	558.7	522.8	503.0	476.4	464.4	468.9	489.2	493.8
35°	1946.2	1705.7	944.3	526.8	519.1	492.4	451.0	429.0	429.4	448.3	454.3
37.5°	2040.0	1740.2	755.4	520.9	527.4	492.9	437.7	407.3	395.0	395.0	397.2
40°	2159.9	1775.6	611.6	525.1	544.8	498.4	430.8	390.4	355.4	356.3	358.2
42.5°	2316.3	1805.9	534.3	533.8	566.0	505.8	430.4	367.7	337.5	358.2	377.1
45°	2490.1	1821.2	500.2	541.6	583.0	510.4	423.0	364.2	339.8	401.4	437.2
47.5°	2690.1	1812.4	481.4	544.3	587.2	510.4	414.7	372.9	355.8	464.8	506.6
50°	2909.5	1787.2	463.0	538.8	585.7	509.4	422.5	381.7	361.8	475.9	504.8
52.5°	3167.3	1765.9	443.7	526.8	576.2	504.3	431.7	377.9	343.0	432.6	452.9
55°	3461.6	1771.9	422.1	509.9	560.9	494.7	428.6	363.2	323.2	381.1	393.6
57.5°	3837.7	1843.2	396.3	488.3	540.2	478.7	417.1	356.3	317.3	345.7	353.1
60°	4257.5	1967.3	364.2	466.6	514.5	452.9	408.3	359.6	320.0	343.0	346.7
62.5°	4565.5	2039.6	336.5	435.0	479.5	424.4	397.2	363.8	327.3	352.7	351.7
65°	4649.2	1920.9	302.1	388.5	432.2	394.5	383.5	368.3	330.6	360.4	356.3
66°	4532.0	1793.1	287.0	366.9	408.3	379.7	376.5	367.7	329.2	361.4	354.4
67.5°	4247.4	1531.0	260.7	335.2	370.1	357.8	365.5	363.8	325.5	360.4	350.8
70°	3463.8	1044.6	223.0	279.0	308.0	315.0	344.3	349.0	313.6	344.3	323.2
72.5°	2420.2	636.3	197.2	216.6	249.2	268.6	315.4	328.8	297.5	300.7	280.5
75°	1169.6	337.9	178.8	167.8	193.6	224.4	280.5	301.1	272.2	251.6	244.0
77.5°	364.6	206.4	151.8	135.2	151.8	181.2	234.5	263.9	242.3	210.6	207.8
80°	195.9	151.8	116.8	108.5	119.9	142.0	184.3	220.2	208.2	189.0	168.7
82.5°	129.2	98.5	86.5	84.1	91.4	108.5	137.0	182.6	182.6	161.8	117.7
85°	66.6	60.2	59.3	59.3	63.9	72.2	93.3	140.7	149.9	85.5	70.8
87.5°	33.1	34.5	32.2	33.6	35.8	35.4	44.6	70.8	84.5	52.0	43.2
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)