

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: P269105

Luminaire Tested: **GLEON-AF-02-LED-E1-T3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269105
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10583.3 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

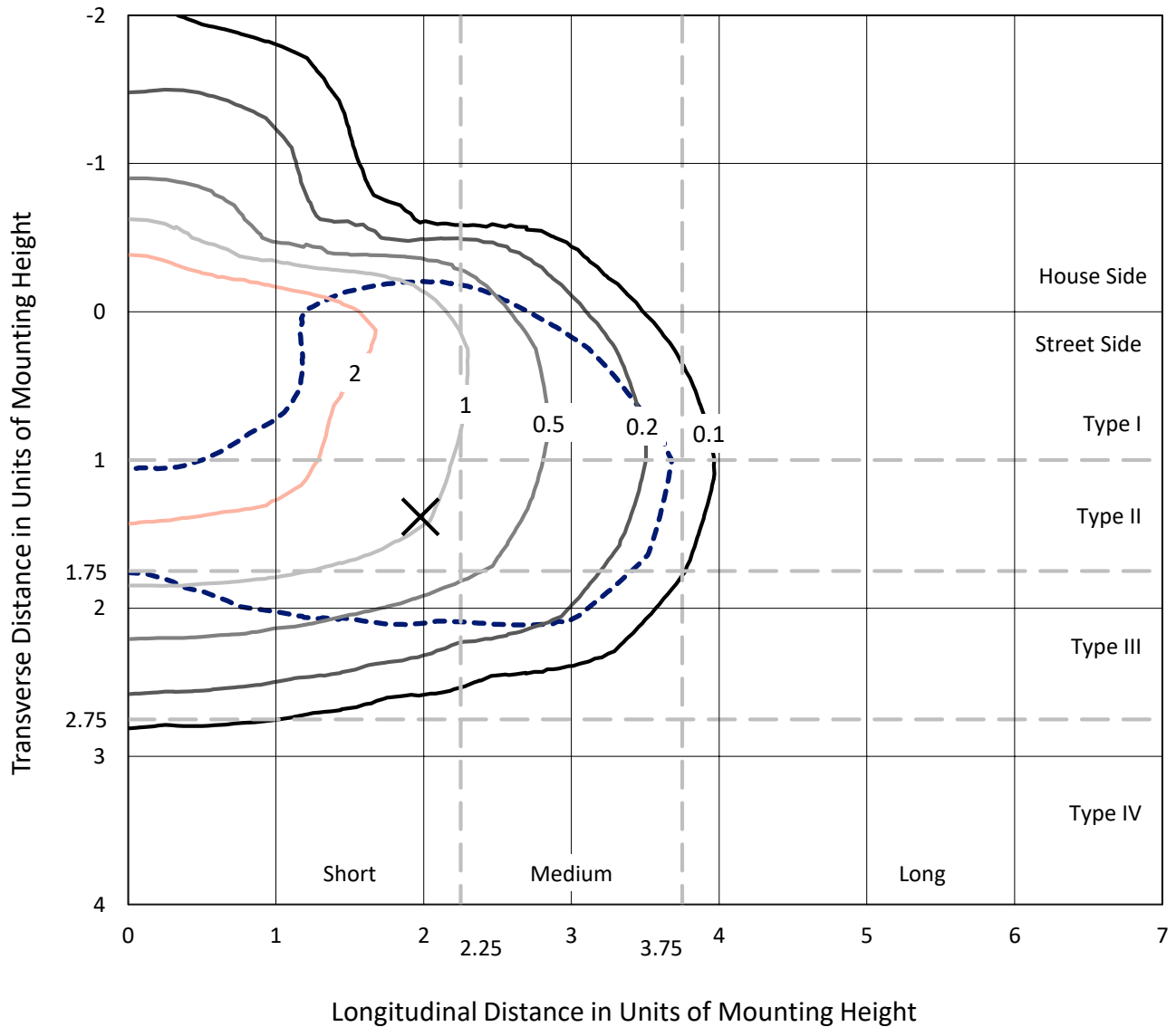
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

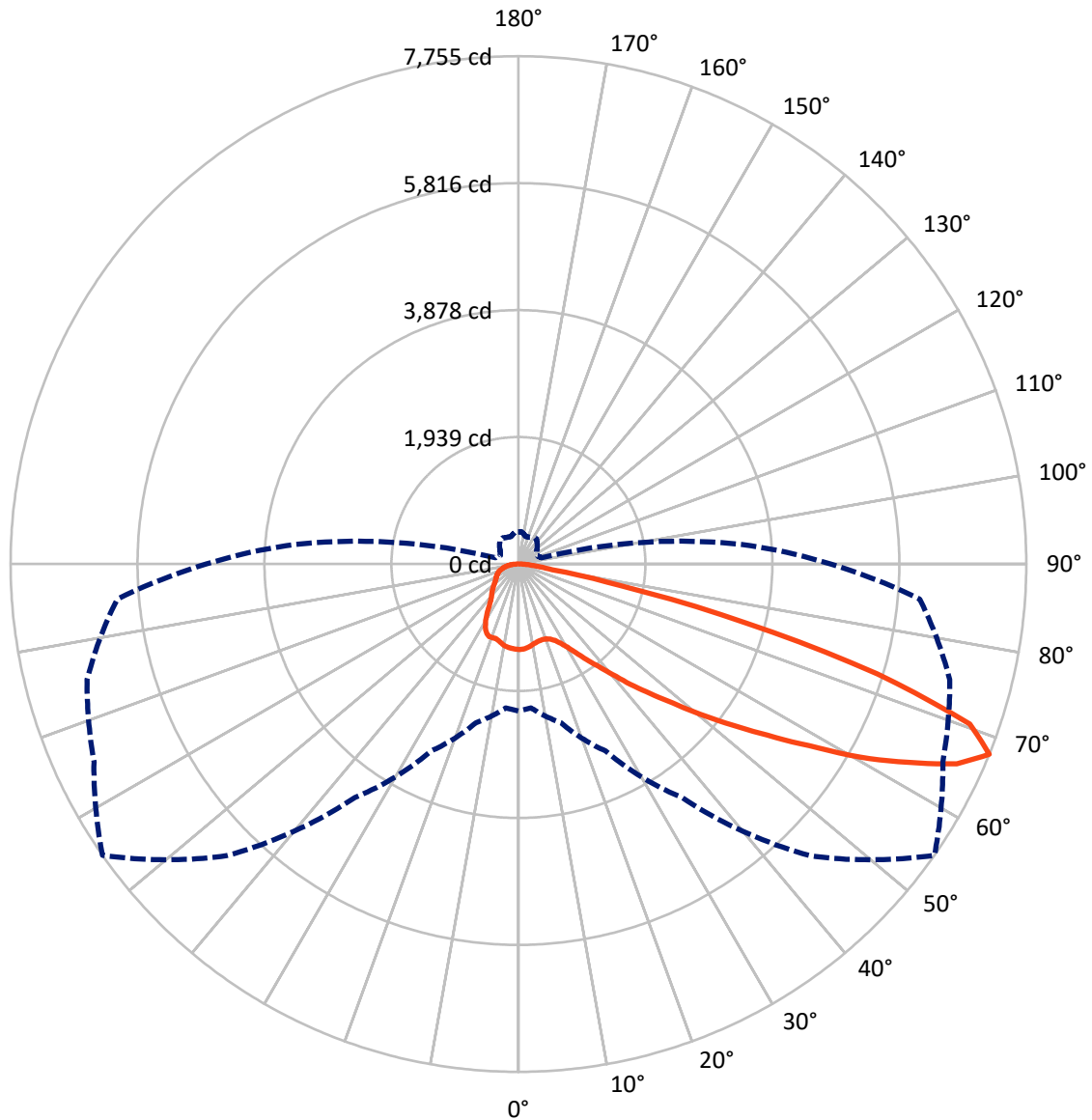


Based on 20 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2286.2	0.0	2286.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	8297.1	0.0	8297.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	10583.3	0.0	10583.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	1.2
10°-20°	345.0	3.3
20°-30°	577.9	5.5
30°-40°	950.3	9.0
40°-50°	1599.7	15.1
50°-60°	2517.8	23.8
60°-70°	3004.7	28.4
70°-80°	1290.3	12.2
80°-90°	175.9	1.7
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°	10583.3	100.0
0°-180°	10583.3	100.0



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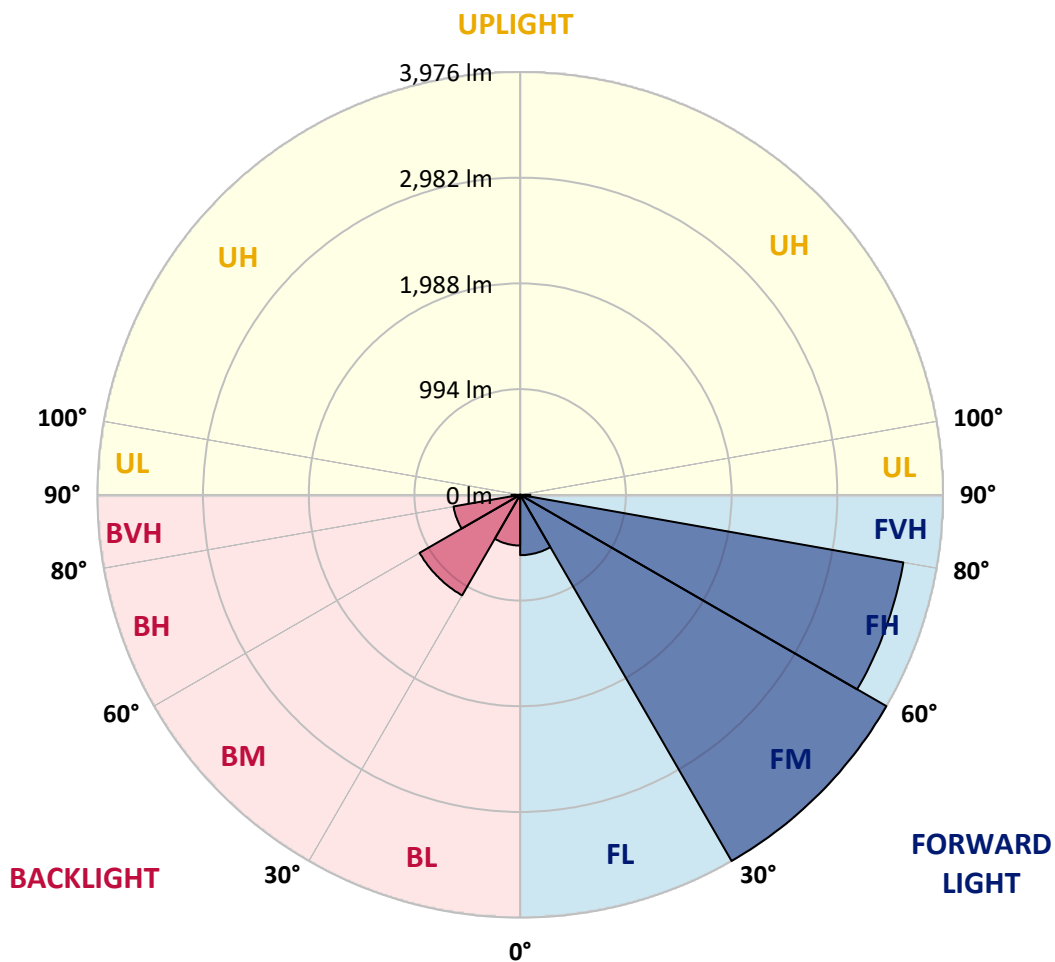
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	567.3	5.4			
FM	(30°-60°)	3975.9	37.6			
FH	(60°-80°)	3658.7	34.6			G2/5000
FVH	(80°-90°)	95.2	0.9			G1/100
BL	(0°-30°)	477.4	4.5	B1/500		
BM	(30°-60°)	1091.9	10.3	B2/2500		
BH	(60°-80°)	636.2	6.0	B2/1000		G2/1000
BVH	(80°-90°)	80.7	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1
2.5°	1293.7	1294.3	1295.4	1299.4	1303.0	1302.0	1302.5	1300.4	1299.9	1296.9	1299.9
5°	1277.4	1278.9	1279.5	1286.2	1290.2	1291.3	1289.6	1287.1	1284.0	1281.1	1282.5
7.5°	1240.1	1244.2	1244.7	1253.9	1260.6	1269.2	1269.8	1270.3	1268.8	1266.7	1269.8
10°	1216.7	1217.7	1217.2	1223.9	1228.9	1238.7	1244.2	1253.9	1257.9	1259.1	1261.1
12.5°	1215.0	1214.1	1212.5	1212.5	1210.9	1215.0	1225.3	1239.1	1248.9	1251.9	1254.5
15°	1231.4	1230.9	1225.7	1218.1	1208.4	1205.3	1214.1	1229.4	1242.1	1248.9	1251.3
17.5°	1268.2	1265.2	1257.0	1239.7	1218.6	1210.5	1211.5	1224.3	1239.1	1247.7	1250.4
20°	1335.7	1335.7	1318.4	1285.7	1248.4	1228.9	1219.7	1227.4	1241.6	1253.5	1257.0
22.5°	1452.3	1453.3	1424.2	1370.5	1307.7	1266.3	1243.2	1241.6	1258.5	1271.8	1276.0
25°	1617.4	1613.3	1572.5	1495.7	1400.1	1331.6	1291.8	1282.5	1296.9	1311.6	1316.7
27.5°	1809.5	1794.8	1746.1	1653.7	1530.0	1429.7	1368.4	1353.6	1367.4	1384.3	1389.4
30°	1999.7	1984.4	1926.7	1825.4	1687.9	1561.2	1473.2	1449.1	1468.5	1492.7	1495.7
32.5°	2189.9	2189.9	2125.5	2007.4	1857.7	1718.1	1612.7	1584.2	1616.3	1645.4	1652.2
35°	2417.3	2418.3	2356.1	2214.0	2052.8	1905.1	1789.2	1768.1	1816.7	1837.2	1853.1
37.5°	2697.0	2702.6	2622.3	2450.5	2274.1	2118.8	1980.9	1952.1	2000.7	2056.5	2107.7
40°	2999.1	3006.3	2917.9	2706.1	2529.8	2367.3	2218.1	2166.4	2247.1	2353.5	2419.4
42.5°	3287.3	3324.2	3238.7	3021.1	2831.4	2663.3	2511.9	2436.8	2538.0	2698.5	2755.8
45°	3704.0	3730.7	3581.8	3384.5	3206.1	3017.9	2817.7	2738.4	2880.0	3082.4	3094.1
47.5°	3981.6	3961.6	3886.0	3763.3	3650.4	3474.5	3172.9	3085.9	3274.1	3512.4	3446.3
50°	4129.2	4135.4	4125.1	4132.4	4136.4	4026.1	3608.4	3489.2	3713.8	4001.5	3849.6
52.5°	4267.3	4226.4	4260.1	4427.8	4630.3	4589.4	4082.3	3958.0	4185.1	4544.3	4276.0
55°	4264.3	4201.9	4311.8	4607.8	5046.9	5093.8	4614.5	4471.3	4683.5	5126.5	4727.9
57.5°	4113.5	4116.6	4285.8	4673.3	5337.2	5568.2	5231.9	5017.3	5212.0	5716.5	5140.5
60°	3905.9	3934.0	4177.8	4662.5	5569.9	5957.3	5989.4	5605.6	5729.7	6252.7	5481.8
62.5°	3571.1	3600.8	3937.1	4551.1	5534.5	6332.0	6674.4	6273.1	6271.2	6577.8	5582.1
65°	3043.1	3034.4	3387.6	4134.4	5238.6	6609.0	7354.9	6850.4	6679.1	6583.0	5380.7
67.5°	2244.1	2205.2	2508.3	3148.9	4354.3	6298.7	7755.1	7150.9	6818.0	6149.9	4765.1
70°	1164.5	1125.7	1371.0	1838.7	2863.6	4916.1	7311.9	6995.6	6510.8	5155.3	3733.1
72.5°	497.9	491.3	590.9	806.7	1385.2	2835.5	5733.4	6054.9	5586.6	3841.1	2566.6
75°	334.8	332.8	370.1	439.6	623.2	1150.6	3588.0	4298.0	4087.4	2381.5	1443.5
77.5°	262.8	260.1	282.2	315.9	403.9	454.0	1592.3	2307.4	2135.7	1036.6	631.8
80°	205.5	203.5	217.2	235.6	290.3	286.3	523.9	918.1	710.5	397.2	307.2
82.5°	162.1	162.1	173.4	173.8	206.0	195.3	273.4	404.3	354.8	231.6	188.1
85°	148.2	148.2	160.0	129.8	134.4	123.2	169.7	239.8	224.9	95.1	81.7
87.5°	74.6	72.7	134.4	115.1	73.1	65.4	82.9	116.1	124.8	52.6	41.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1
2.5°	1298.9	1298.4	1299.4	1299.9	1304.0	1309.5	1312.2	1315.7	1317.9	1316.7
5°	1283.6	1284.5	1288.7	1291.8	1298.9	1308.1	1313.2	1317.4	1320.9	1319.3
7.5°	1270.8	1273.3	1279.5	1282.1	1286.2	1288.7	1288.2	1289.6	1292.8	1289.2
10°	1263.6	1266.7	1271.3	1267.7	1257.9	1244.2	1231.4	1224.7	1226.8	1224.3
12.5°	1256.5	1260.6	1257.0	1240.1	1213.0	1195.1	1185.5	1186.4	1191.1	1192.1
15°	1252.3	1253.9	1238.7	1207.0	1179.3	1176.7	1181.8	1180.8	1181.4	1181.4
17.5°	1252.3	1248.4	1219.7	1188.0	1176.2	1171.6	1155.8	1135.8	1127.2	1124.0
20°	1259.1	1248.4	1213.5	1192.6	1167.0	1127.6	1085.7	1049.0	1032.6	1028.0
22.5°	1278.9	1260.6	1230.9	1194.7	1122.1	1056.0	989.7	945.6	916.0	910.9
25°	1319.3	1298.9	1265.2	1167.5	1050.5	956.4	880.8	831.7	802.0	798.0
27.5°	1389.9	1376.7	1283.6	1107.7	955.3	854.6	784.7	746.9	724.8	723.3
30°	1496.1	1489.6	1274.3	1019.2	838.4	756.1	722.2	700.3	684.0	683.4
32.5°	1665.9	1612.3	1244.2	911.4	731.5	685.9	672.2	658.8	646.2	646.2
35°	1884.3	1711.5	1187.0	795.9	666.6	647.1	629.8	608.8	592.0	590.9
37.5°	2140.8	1772.7	1084.3	702.8	635.9	621.1	595.5	564.3	534.8	529.6
40°	2400.0	1791.2	939.5	645.6	616.4	594.9	563.9	527.0	498.4	496.9
42.5°	2637.7	1755.8	786.1	606.3	597.1	568.4	535.7	503.1	480.6	480.1
45°	2837.0	1664.4	657.4	568.9	576.6	544.5	515.3	488.7	471.3	467.7
47.5°	3024.7	1535.1	566.9	529.6	556.2	531.1	506.6	481.5	464.7	462.1
50°	3242.4	1395.4	503.5	491.3	538.3	526.4	513.7	487.7	459.6	456.5
52.5°	3506.2	1274.9	454.0	457.4	524.5	532.6	532.2	505.0	456.0	451.8
55°	3800.5	1140.9	416.6	429.8	518.9	544.0	536.7	521.3	459.0	452.8
57.5°	4090.4	984.5	390.6	409.0	510.6	542.8	514.8	492.8	466.2	457.4
60°	4307.7	774.3	370.6	390.6	492.8	526.0	490.7	461.5	464.7	458.0
62.5°	4322.0	598.6	346.6	374.8	465.7	509.1	474.8	447.7	471.3	465.1
65°	4068.0	452.3	323.6	355.8	436.5	498.4	459.6	440.1	485.2	478.4
67.5°	3424.9	364.0	304.2	336.3	407.4	475.9	445.7	433.0	497.4	485.7
70°	2472.6	310.3	285.2	312.8	381.3	450.3	433.5	420.1	464.2	445.7
72.5°	1522.3	269.0	263.7	281.7	361.4	423.8	415.0	396.2	418.2	403.2
75°	760.1	233.1	239.8	250.9	333.4	393.5	384.5	365.5	368.6	365.5
77.5°	364.0	199.3	211.6	220.4	297.0	359.3	349.6	330.2	326.7	327.2
80°	230.5	166.6	178.5	184.5	265.3	319.4	309.7	290.3	331.3	307.2
82.5°	144.2	135.5	138.5	149.7	231.0	278.0	265.3	247.9	298.5	236.2
85°	79.7	94.6	98.6	108.3	177.9	232.7	219.8	197.8	177.3	174.4
87.5°	47.5	56.2	57.9	64.9	119.7	168.3	148.8	141.0	117.0	116.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)