

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: P194000

Luminaire Tested: **GLEON-AF-02-LED-E1-T3-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194000
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-T3-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10904 lumens
Efficiency: N/A
Efficacy: 84.5 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

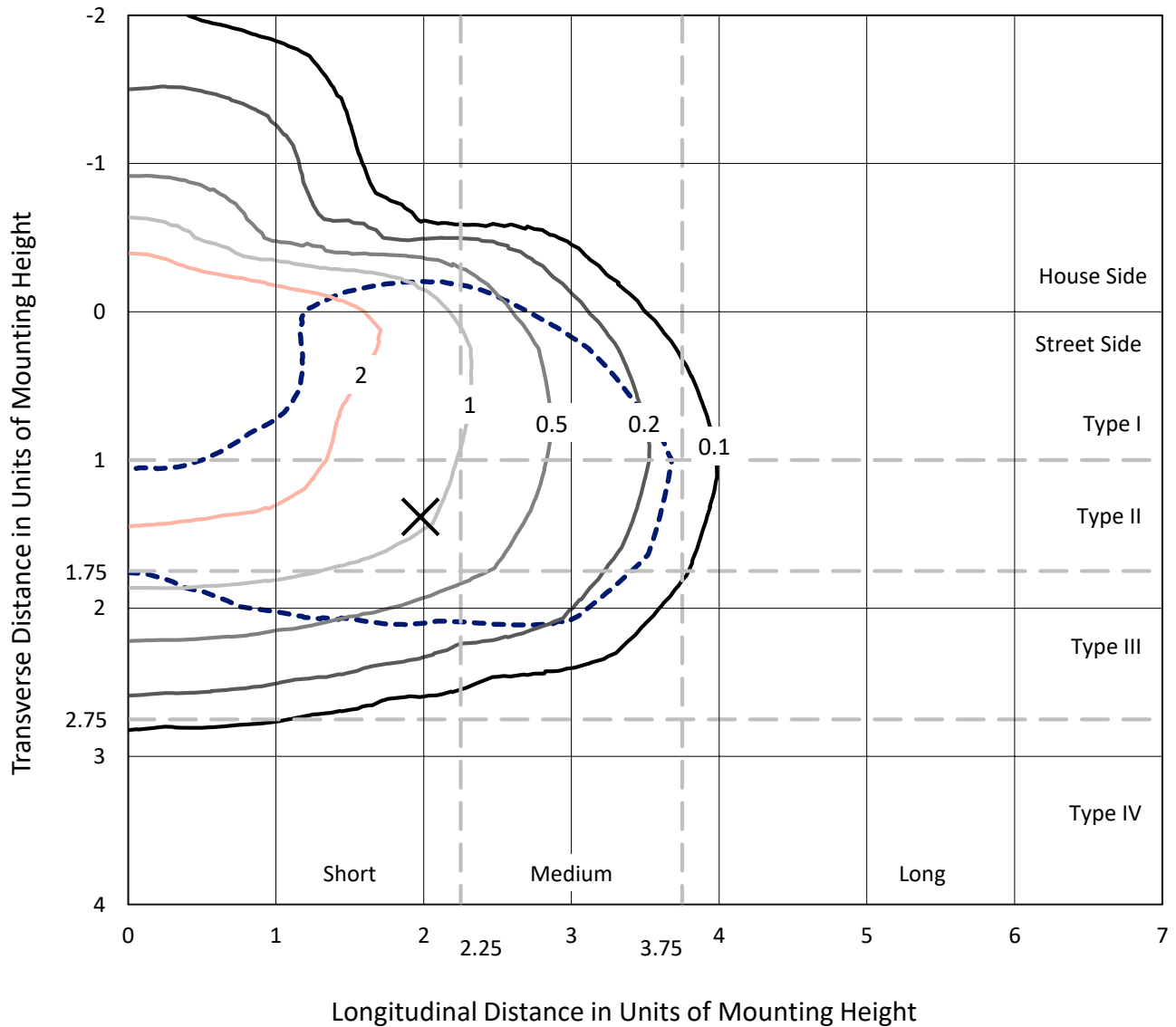
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

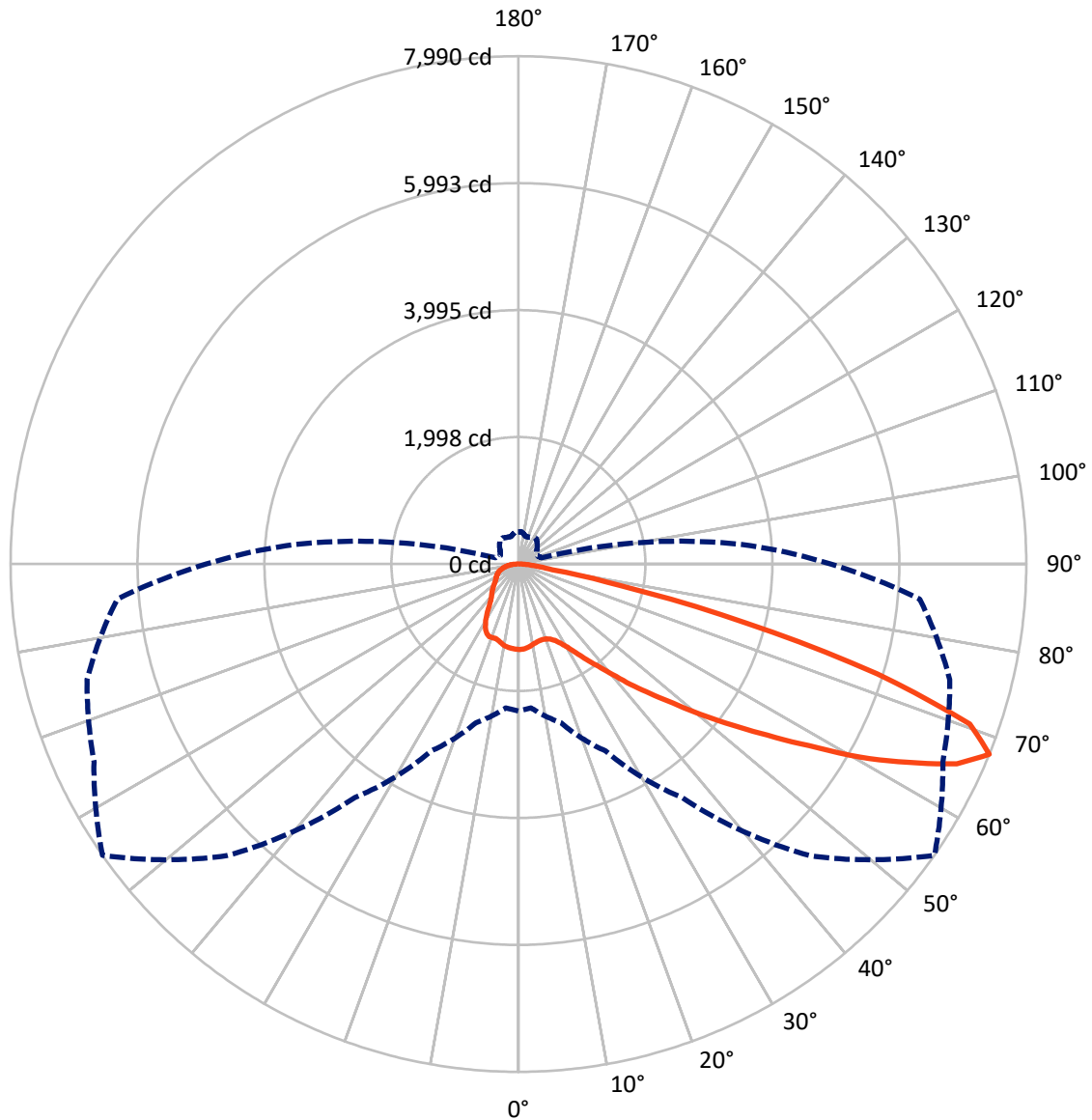
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.5 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	2355.5	0.0	2355.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	8548.5	0.0	8548.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	10904.0	0.0	10904.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	1.2
10°-20°	355.4	3.3
20°-30°	595.4	5.5
30°-40°	979.1	9.0
40°-50°	1648.1	15.1
50°-60°	2594.1	23.8
60°-70°	3095.7	28.4
70°-80°	1329.4	12.2
80°-90°	181.2	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°	10904.0	100.0
0°-180°	10904.0	100.0



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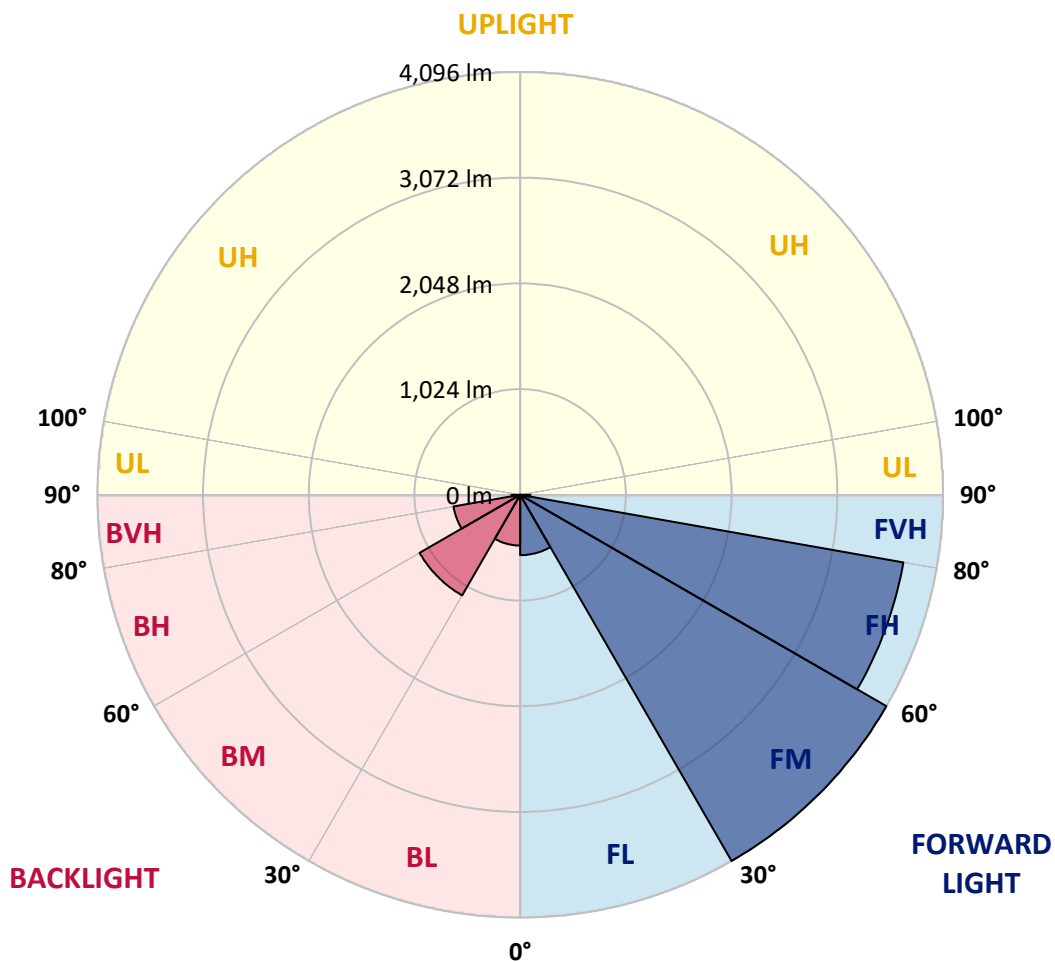
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	584.5	5.4			
FM	(30°-60°)	4096.3	37.6			
FH	(60°-80°)	3769.6	34.6			G2/5000
FVH	(80°-90°)	98.1	0.9			G1/100
BL	(0°-30°)	491.9	4.5	B1/500		
BM	(30°-60°)	1125.0	10.3	B2/2500		
BH	(60°-80°)	655.5	6.0	B2/1000		G2/1000
BVH	(80°-90°)	83.1	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°	1344.6	1344.6	1344.6	1344.6	1344.6	1344.6	1344.6	1344.6	1344.6	1344.6	1344.6
2.5°	1333.0	1333.5	1334.6	1338.8	1342.5	1341.4	1341.9	1339.8	1339.3	1336.2	1339.3
5°	1316.1	1317.7	1318.2	1325.1	1329.3	1330.4	1328.8	1326.1	1323.0	1319.8	1321.4
7.5°	1277.7	1281.9	1282.4	1291.9	1298.8	1307.7	1308.2	1308.8	1307.2	1305.1	1308.2
10°	1253.5	1254.5	1254.0	1260.8	1266.1	1276.1	1281.9	1291.9	1296.1	1297.2	1299.3
12.5°	1251.9	1250.8	1249.3	1249.3	1247.7	1251.9	1262.4	1276.6	1286.6	1289.8	1292.4
15°	1268.7	1268.2	1262.9	1255.0	1245.0	1241.9	1250.8	1266.6	1279.8	1286.6	1289.3
17.5°	1306.7	1303.5	1295.1	1277.2	1255.6	1247.1	1248.2	1261.4	1276.6	1285.6	1288.2
20°	1376.2	1376.2	1358.3	1324.6	1286.1	1266.1	1256.6	1264.5	1279.3	1291.4	1295.1
22.5°	1496.3	1497.3	1467.3	1412.0	1347.2	1304.6	1280.9	1279.3	1296.7	1310.3	1314.6
25°	1666.4	1662.2	1620.0	1541.0	1442.5	1372.0	1330.9	1321.4	1336.2	1351.4	1356.7
27.5°	1864.4	1849.1	1799.1	1703.8	1576.3	1473.1	1409.9	1394.6	1408.8	1426.2	1431.5
30°	2060.3	2044.5	1985.0	1880.7	1739.1	1608.4	1517.9	1493.1	1513.1	1537.9	1541.0
32.5°	2256.2	2256.2	2189.9	2068.2	1913.9	1770.1	1661.6	1632.1	1665.3	1695.3	1702.2
35°	2490.6	2491.7	2427.4	2281.0	2115.1	1962.9	1843.3	1821.7	1871.8	1892.8	1909.2
37.5°	2778.7	2784.5	2701.8	2524.8	2343.1	2183.0	2040.8	2011.3	2061.4	2118.8	2171.5
40°	3090.0	3097.3	3006.2	2788.2	2606.5	2439.0	2285.2	2232.0	2315.2	2424.8	2492.7
42.5°	3387.0	3424.9	3337.0	3112.6	2917.2	2743.9	2588.0	2510.6	2614.9	2780.3	2839.3
45°	3816.2	3843.6	3690.4	3487.1	3303.3	3109.4	2903.0	2821.4	2967.2	3175.8	3187.9
47.5°	4102.2	4081.7	4003.7	3877.3	3760.9	3579.8	3269.0	3179.5	3373.3	3618.7	3550.8
50°	4254.4	4260.7	4250.2	4257.6	4261.8	4148.0	3717.7	3595.0	3826.2	4122.8	3966.3
52.5°	4396.6	4354.5	4389.2	4562.0	4770.6	4728.4	4206.0	4078.0	4311.8	4682.1	4405.6
55°	4393.5	4329.2	4442.4	4747.4	5199.8	5248.2	4754.2	4606.8	4825.3	5281.9	4871.1
57.5°	4238.1	4241.3	4415.6	4814.8	5498.9	5737.0	5390.4	5169.2	5369.9	5889.7	5296.2
60°	4024.3	4053.2	4304.5	4803.7	5738.6	6137.8	6171.0	5775.4	5903.4	6442.2	5648.0
62.5°	3679.3	3709.8	4056.4	4688.9	5702.2	6523.8	6876.7	6463.3	6461.2	6777.2	5751.2
65°	3135.3	3126.3	3490.2	4259.7	5397.3	6809.3	7577.7	7057.9	6881.4	6782.4	5543.7
67.5°	2312.1	2272.0	2584.4	3244.3	4486.2	6489.6	7990.1	7367.6	7024.7	6336.3	4909.6
70°	1199.7	1159.7	1412.5	1894.4	2950.4	5065.0	7533.5	7207.4	6708.2	5311.4	3846.3
72.5°	513.0	506.1	608.8	831.1	1427.3	2921.4	5907.1	6238.4	5755.9	3957.4	2644.4
75°	345.0	342.9	381.3	452.9	642.0	1185.5	3696.7	4428.2	4211.2	2453.7	1487.3
77.5°	270.7	268.1	290.7	325.5	416.1	467.7	1640.6	2377.4	2200.4	1068.1	651.0
80°	211.7	209.6	223.8	242.8	299.1	294.9	539.8	945.9	732.1	409.2	316.5
82.5°	167.0	167.0	178.5	179.1	212.2	201.2	281.8	416.6	365.5	238.6	193.8
85°	152.7	152.7	164.8	133.8	138.5	126.9	174.9	247.0	231.7	98.0	84.3
87.5°	76.9	74.8	138.5	118.5	75.3	67.4	85.3	119.6	128.5	54.2	42.1
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°	1344.6	1344.6	1344.6	1344.6	1344.6	1344.6	1344.6	1344.6	1344.6	1344.6
2.5°	1338.3	1337.7	1338.8	1339.3	1343.5	1349.3	1352.0	1355.6	1357.7	1356.7
5°	1322.5	1323.5	1327.7	1330.9	1338.3	1347.7	1353.0	1357.2	1360.9	1359.3
7.5°	1309.3	1311.9	1318.2	1320.9	1325.1	1327.7	1327.2	1328.8	1331.9	1328.3
10°	1301.9	1305.1	1309.8	1306.1	1296.1	1281.9	1268.7	1261.9	1264.0	1261.4
12.5°	1294.5	1298.8	1295.1	1277.7	1249.8	1231.3	1221.3	1222.4	1227.1	1228.2
15°	1290.3	1291.9	1276.1	1243.5	1215.0	1212.4	1217.7	1216.6	1217.1	1217.1
17.5°	1290.3	1286.1	1256.6	1224.0	1211.9	1207.1	1190.8	1170.3	1161.3	1158.1
20°	1297.2	1286.1	1250.3	1228.7	1202.4	1161.8	1118.6	1080.7	1063.9	1059.1
22.5°	1317.7	1298.8	1268.2	1230.8	1156.0	1088.1	1019.6	974.3	943.8	938.5
25°	1359.3	1338.3	1303.5	1202.9	1082.3	985.4	907.4	856.9	826.3	822.1
27.5°	1432.0	1418.3	1322.5	1141.3	984.3	880.6	808.4	769.5	746.8	745.2
30°	1541.6	1534.7	1313.0	1050.2	863.7	778.9	744.2	721.5	704.7	704.2
32.5°	1716.4	1661.1	1281.9	939.0	753.7	706.8	692.6	678.9	665.7	665.7
35°	1941.3	1763.3	1222.9	820.0	686.8	666.8	648.9	627.3	609.9	608.8
37.5°	2205.7	1826.5	1117.1	724.2	655.2	639.9	613.6	581.4	550.9	545.6
40°	2472.7	1845.4	968.0	665.2	635.2	613.0	580.9	543.0	513.5	511.9
42.5°	2717.6	1809.1	810.0	624.6	615.1	585.7	551.9	518.2	495.1	494.5
45°	2923.0	1714.8	677.3	586.2	594.1	560.9	530.9	503.5	485.6	481.9
47.5°	3116.3	1581.6	584.1	545.6	573.0	547.2	521.9	496.1	478.7	476.1
50°	3340.7	1437.8	518.8	506.1	554.6	542.5	529.3	502.4	473.5	470.3
52.5°	3612.4	1313.5	467.7	471.4	540.4	548.8	548.3	520.3	469.8	465.6
55°	3915.8	1175.5	429.2	442.9	534.6	560.4	553.0	537.2	472.9	466.6
57.5°	4214.4	1014.4	402.4	421.3	526.1	559.3	530.4	507.7	480.3	471.4
60°	4438.2	797.9	381.8	402.4	507.7	541.9	505.6	475.6	478.7	471.9
62.5°	4453.0	616.7	357.1	386.0	479.8	524.6	489.3	461.4	485.6	479.3
65°	4191.2	466.1	333.4	366.6	449.8	513.5	473.5	453.5	499.8	493.0
67.5°	3528.7	375.0	313.4	346.5	419.8	490.3	459.3	446.1	512.4	500.3
70°	2547.5	319.7	293.9	322.3	392.9	464.0	446.6	432.9	478.2	459.3
72.5°	1568.4	277.0	271.8	290.2	372.4	436.6	427.7	408.2	430.8	415.5
75°	783.2	240.2	247.0	258.6	343.4	405.5	396.1	376.6	379.7	376.6
77.5°	375.0	205.4	218.0	227.0	306.0	370.2	360.2	340.2	336.5	337.1
80°	237.5	171.7	183.8	190.1	273.3	329.2	319.2	299.1	341.3	316.5
82.5°	148.5	139.6	142.7	154.3	238.1	286.5	273.3	255.4	307.6	243.3
85°	82.2	97.4	101.6	111.7	183.3	239.6	226.5	203.8	182.8	179.6
87.5°	49.0	57.9	59.5	66.9	123.2	173.3	153.3	145.4	120.6	120.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)