

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: P193341

Luminaire Tested: **GLEON-AF-03-LED-E1-5MQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-E1-5MQ-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12586 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 124
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

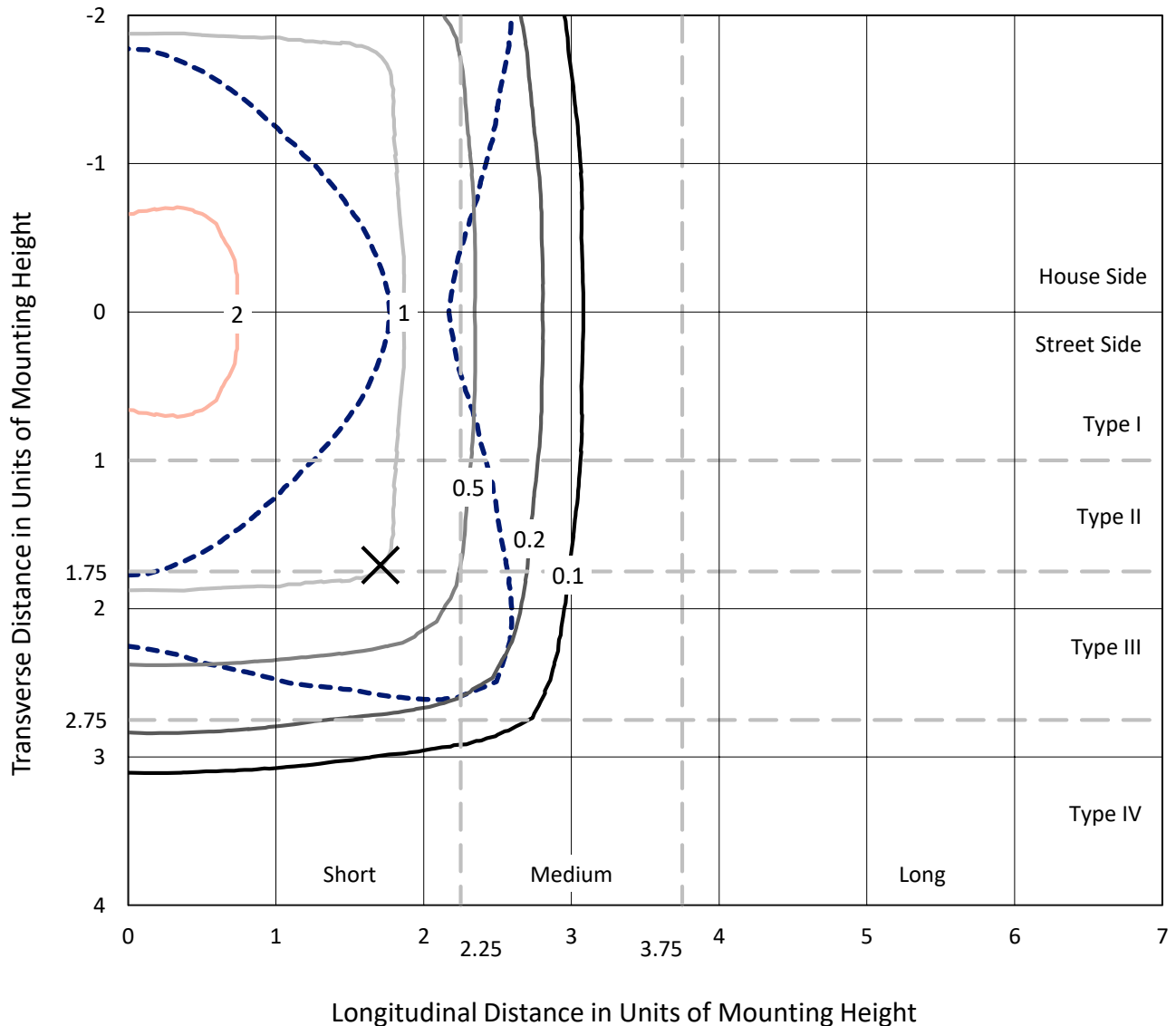


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

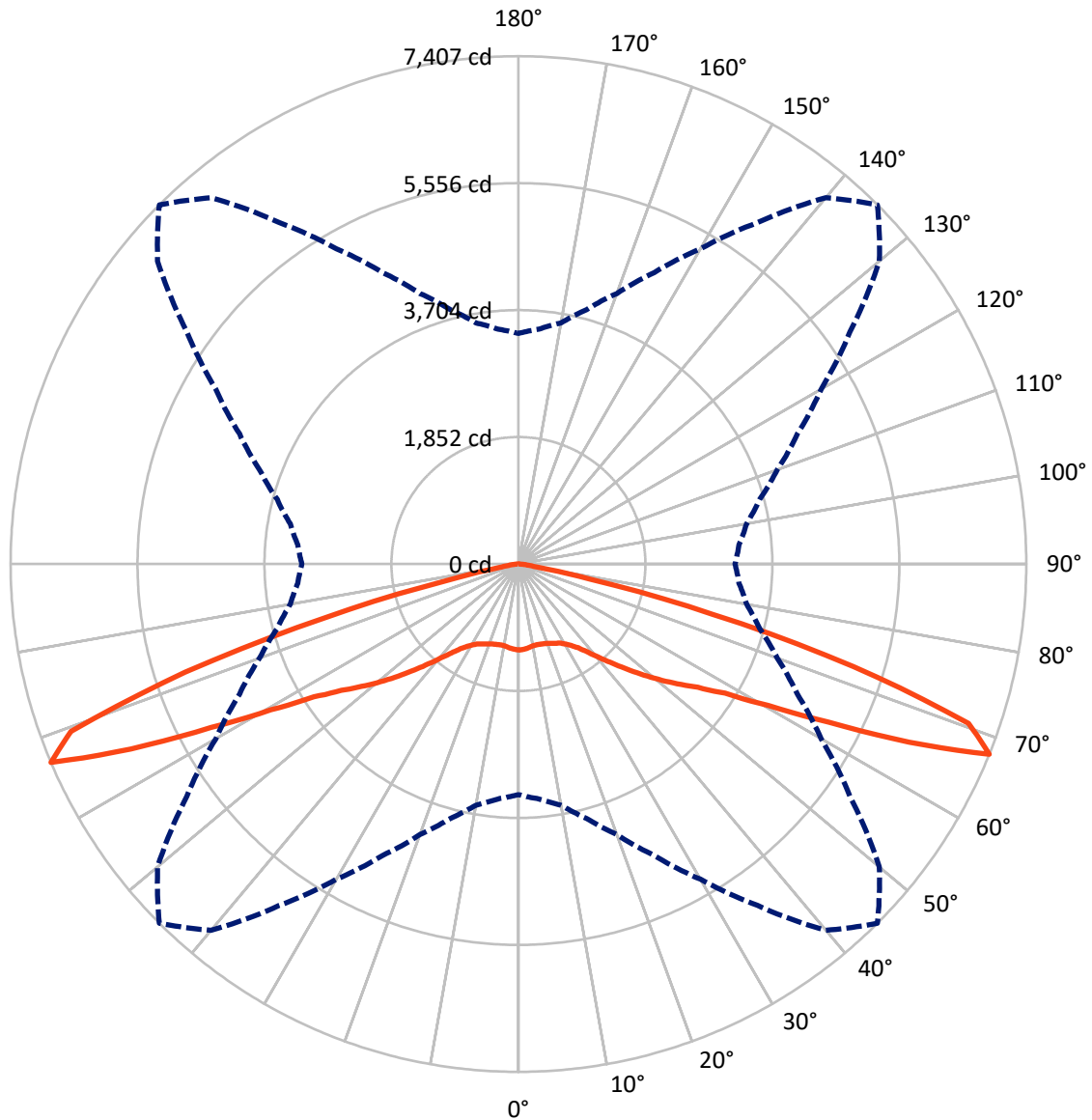


Based on 20 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6293.0	0.0	6293.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6293.0	0.0	6293.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12586.0	0.0	12586.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	0.9
10°-20°	340.7	2.7
20°-30°	579.1	4.6
30°-40°	946.6	7.5
40°-50°	1689.9	13.4
50°-60°	2849.3	22.6
60°-70°	4421.6	35.1
70°-80°	1553.6	12.3
80°-90°	87.8	0.7
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°	12586.0	100.0
0°-180°	12586.0	100.0



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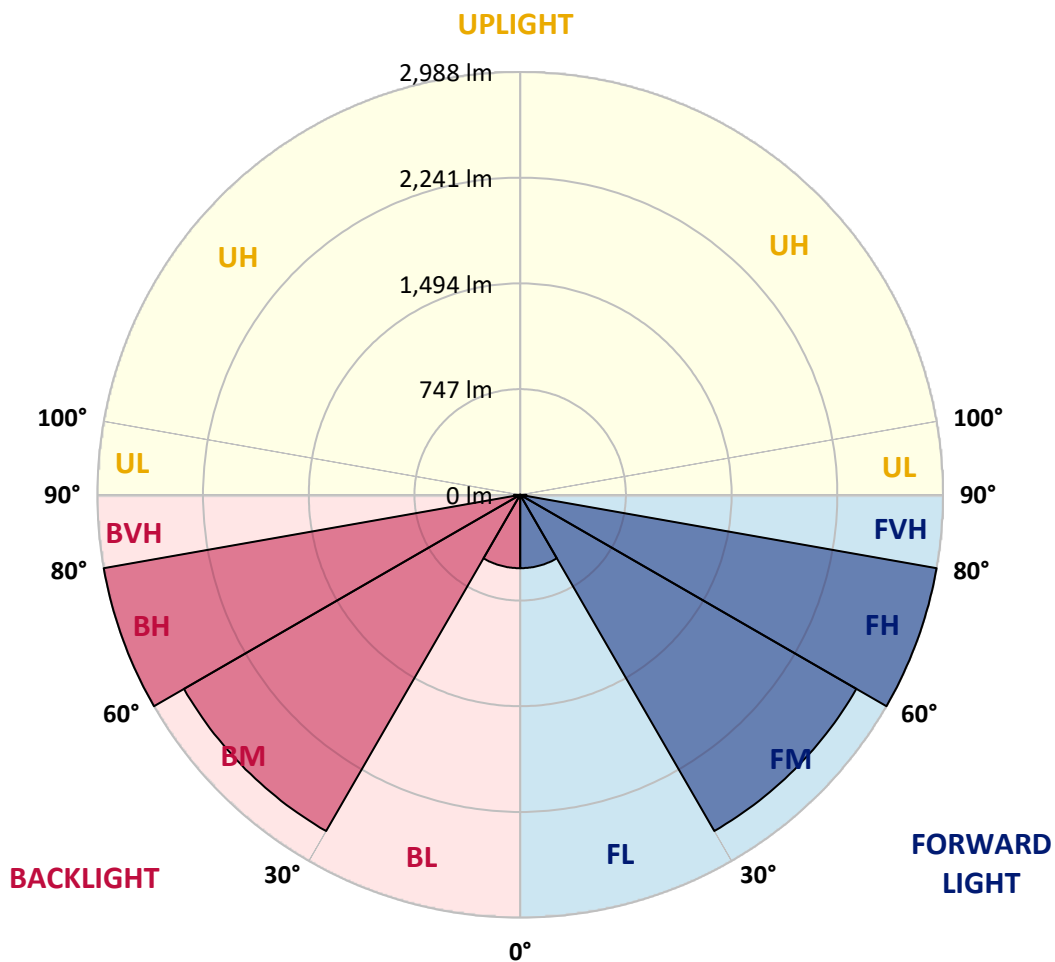
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	518.6	4.1			
FM	(30°-60°)	2742.9	21.8			
FH	(60°-80°)	2987.6	23.7			G2/5000
FVH	(80°-90°)	43.9	0.3			G1/100
BL	(0°-30°)	518.6	4.1	B2/1000		
BM	(30°-60°)	2742.9	21.8	B3/5000		
BH	(60°-80°)	2987.6	23.7	B4/5000		G2/5000
BVH	(80°-90°)	43.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2
2.5°	1249.6	1250.8	1250.8	1250.8	1250.2	1250.2	1249.0	1250.2	1249.6	1247.9	1248.5
5°	1239.2	1240.4	1240.4	1239.8	1241.5	1240.9	1239.2	1240.4	1239.8	1238.6	1239.2
7.5°	1224.2	1225.9	1225.9	1225.3	1227.0	1226.5	1225.3	1225.9	1225.9	1224.2	1224.2
10°	1207.4	1208.5	1208.5	1207.9	1210.8	1210.8	1210.3	1212.0	1212.6	1210.8	1209.7
12.5°	1191.7	1193.5	1193.5	1195.8	1198.7	1199.8	1202.7	1205.1	1207.4	1206.8	1204.5
15°	1182.5	1183.6	1186.0	1188.8	1193.5	1197.5	1202.2	1207.4	1212.0	1213.2	1209.7
17.5°	1176.7	1178.4	1181.9	1186.0	1192.3	1199.3	1206.2	1213.2	1219.5	1221.8	1217.8
20°	1175.0	1176.1	1179.6	1186.5	1195.2	1205.6	1215.5	1223.6	1232.3	1235.1	1232.3
22.5°	1178.4	1180.7	1184.8	1192.9	1204.5	1217.8	1229.4	1240.4	1251.4	1256.6	1252.5
25°	1194.1	1196.4	1201.6	1212.0	1224.7	1238.6	1251.9	1264.7	1274.5	1279.7	1276.8
27.5°	1223.0	1225.9	1232.3	1242.7	1256.6	1271.6	1286.1	1296.5	1304.6	1306.3	1302.9
30°	1266.4	1272.8	1280.3	1291.9	1308.1	1320.8	1335.3	1344.5	1354.4	1354.4	1351.5
32.5°	1334.1	1340.5	1348.6	1359.6	1372.3	1386.2	1398.9	1407.0	1417.5	1418.0	1411.1
35°	1435.4	1438.3	1445.3	1452.2	1463.8	1475.9	1486.9	1492.1	1500.8	1501.4	1495.0
37.5°	1569.1	1569.7	1574.3	1576.6	1587.1	1600.4	1610.8	1614.3	1622.4	1621.2	1614.8
40°	1724.8	1727.7	1729.4	1732.9	1743.9	1756.6	1767.6	1769.4	1778.1	1776.3	1768.2
42.5°	1904.8	1906.0	1915.8	1921.0	1931.4	1937.8	1951.7	1953.4	1963.9	1959.2	1950.0
45°	2106.8	2117.2	2126.5	2136.9	2147.9	2155.4	2166.4	2164.1	2171.1	2164.1	2158.9
47.5°	2319.2	2326.8	2347.6	2363.8	2381.7	2388.1	2403.7	2396.8	2403.7	2393.9	2392.2
50°	2553.1	2566.4	2584.3	2602.8	2621.9	2632.4	2652.6	2643.9	2653.2	2643.9	2638.7
52.5°	2783.4	2786.9	2826.3	2853.5	2880.1	2892.2	2904.4	2900.3	2900.9	2900.3	2895.1
55°	3002.2	3010.3	3049.7	3086.7	3133.0	3167.2	3188.0	3185.7	3180.5	3175.3	3166.6
57.5°	3248.8	3256.9	3302.0	3347.7	3400.4	3449.0	3491.3	3534.7	3551.5	3556.1	3537.0
60°	3582.2	3581.6	3641.8	3697.3	3772.6	3844.9	3937.5	4031.9	4140.1	4190.5	4123.9
62.5°	3921.3	3935.2	4022.0	4120.4	4275.6	4426.6	4597.4	4765.2	4936.5	5076.0	4927.9
65°	3880.8	3934.1	4063.1	4286.0	4572.5	4912.8	5280.9	5670.5	6022.4	6264.3	5992.8
67.5°	3363.4	3439.2	3570.6	3841.5	4199.7	4690.6	5308.7	6079.1	6974.5	7407.4	6870.9
70°	2437.9	2523.5	2661.3	2925.8	3280.6	3747.1	4418.5	5343.4	6528.8	6965.2	6374.3
72.5°	1213.2	1259.5	1344.5	1513.0	1781.5	2160.1	2769.0	3658.0	4706.8	5107.3	4567.3
75°	412.1	433.5	448.0	503.0	588.1	736.8	1039.5	1599.2	2439.6	2924.6	2404.9
77.5°	237.9	238.5	248.3	258.1	272.6	288.8	329.3	432.4	747.8	1062.1	773.8
80°	154.0	153.4	161.5	169.0	178.8	187.0	189.3	200.3	230.9	273.8	244.8
82.5°	79.9	89.7	107.7	117.5	136.0	139.5	134.9	130.8	138.3	143.5	147.0
85°	44.0	38.2	57.3	74.1	82.2	83.3	83.3	78.7	81.6	79.9	86.8
87.5°	20.3	18.5	22.6	36.5	38.8	33.0	34.7	30.7	22.0	21.4	24.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2
2.5°	1248.5	1249.0	1249.0	1250.8	1251.4	1252.5	1253.7	1254.2
5°	1238.6	1240.4	1239.2	1240.9	1240.9	1242.1	1242.1	1242.7
7.5°	1224.2	1225.9	1225.9	1225.9	1225.3	1227.0	1227.0	1227.0
10°	1209.1	1210.3	1209.7	1208.5	1207.4	1209.1	1208.5	1207.9
12.5°	1204.5	1201.6	1199.3	1198.1	1195.8	1196.4	1194.6	1194.6
15°	1207.4	1202.2	1198.1	1196.4	1194.1	1192.9	1191.7	1192.3
17.5°	1214.9	1208.5	1203.3	1200.4	1197.5	1195.8	1193.5	1194.1
20°	1228.2	1220.7	1213.2	1207.4	1202.2	1199.3	1197.5	1196.9
22.5°	1247.9	1236.9	1225.9	1217.2	1210.3	1206.2	1204.5	1203.3
25°	1270.5	1258.3	1245.6	1235.7	1228.8	1223.6	1220.1	1220.1
27.5°	1298.8	1289.0	1277.4	1265.8	1259.5	1254.2	1251.9	1250.8
30°	1346.3	1337.0	1327.8	1316.8	1308.7	1303.4	1299.4	1295.9
32.5°	1407.0	1399.5	1392.0	1383.9	1376.4	1369.4	1363.1	1360.2
35°	1492.7	1486.9	1481.7	1472.5	1469.6	1465.5	1462.0	1459.1
37.5°	1610.8	1608.5	1608.5	1598.6	1596.3	1594.6	1591.1	1591.7
40°	1765.9	1768.2	1765.3	1761.9	1760.1	1755.5	1755.5	1759.5
42.5°	1949.4	1951.1	1957.5	1951.7	1958.1	1952.3	1948.8	1951.7
45°	2162.4	2168.7	2181.5	2175.7	2179.7	2169.9	2157.7	2158.3
47.5°	2401.4	2407.2	2412.4	2408.4	2408.9	2392.7	2376.5	2372.5
50°	2649.7	2652.0	2654.9	2649.1	2650.3	2632.4	2613.8	2614.4
52.5°	2895.1	2906.1	2917.7	2902.1	2898.6	2878.3	2852.3	2841.9
55°	3175.8	3191.5	3178.2	3151.0	3123.8	3096.6	3062.4	3056.6
57.5°	3522.0	3495.3	3453.7	3402.2	3364.5	3326.3	3291.6	3277.1
60°	4003.5	3903.4	3828.1	3751.7	3703.7	3656.8	3611.1	3604.2
62.5°	4684.2	4511.1	4361.2	4203.2	4074.1	3973.4	3893.0	3870.4
65°	5537.3	5128.1	4773.3	4442.2	4154.6	3937.5	3800.9	3740.7
67.5°	5904.3	5096.3	4488.0	4018.0	3641.8	3379.0	3231.4	3157.9
70°	5188.3	4226.4	3564.8	3094.2	2751.6	2471.5	2337.8	2259.0
72.5°	3569.4	2688.5	2125.9	1735.2	1461.5	1227.0	1134.4	1127.5
75°	1602.7	1061.5	731.6	563.7	474.6	412.7	393.6	379.1
77.5°	448.6	331.6	295.8	276.7	258.1	236.7	228.6	230.4
80°	218.2	206.1	197.9	185.8	169.0	151.1	143.0	146.4
82.5°	144.7	143.0	148.2	139.5	115.2	97.8	82.2	75.2
85°	88.0	89.1	90.9	91.4	77.6	54.4	37.0	41.7
87.5°	34.7	39.9	43.4	45.1	42.3	26.0	20.8	21.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)