

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: P270004

Luminaire Tested: **GPC-AF-02-LED-E1-5MQ-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270004
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: GPC-AF-02-LED-E1-5MQ-7027-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12437.3 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

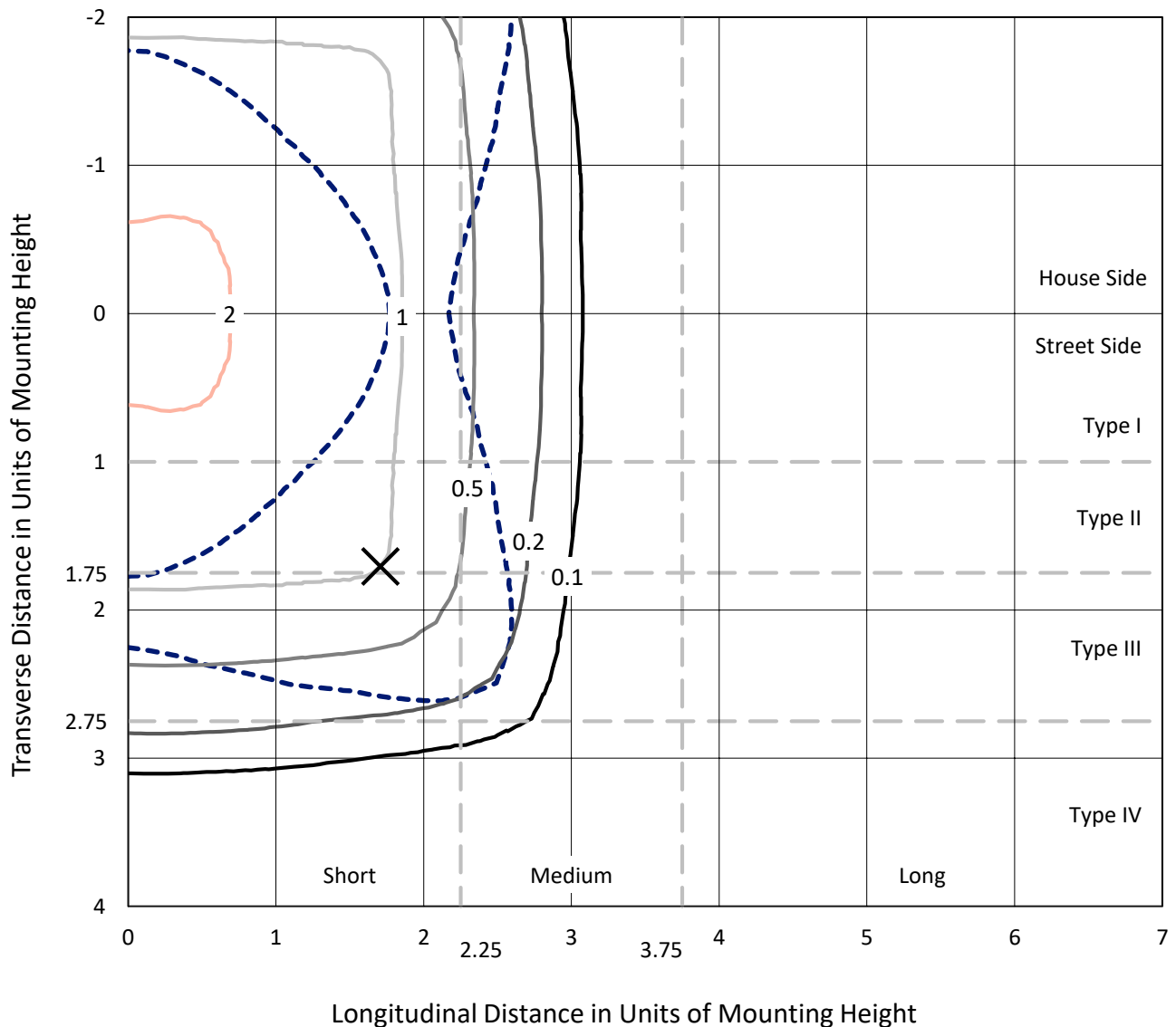
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

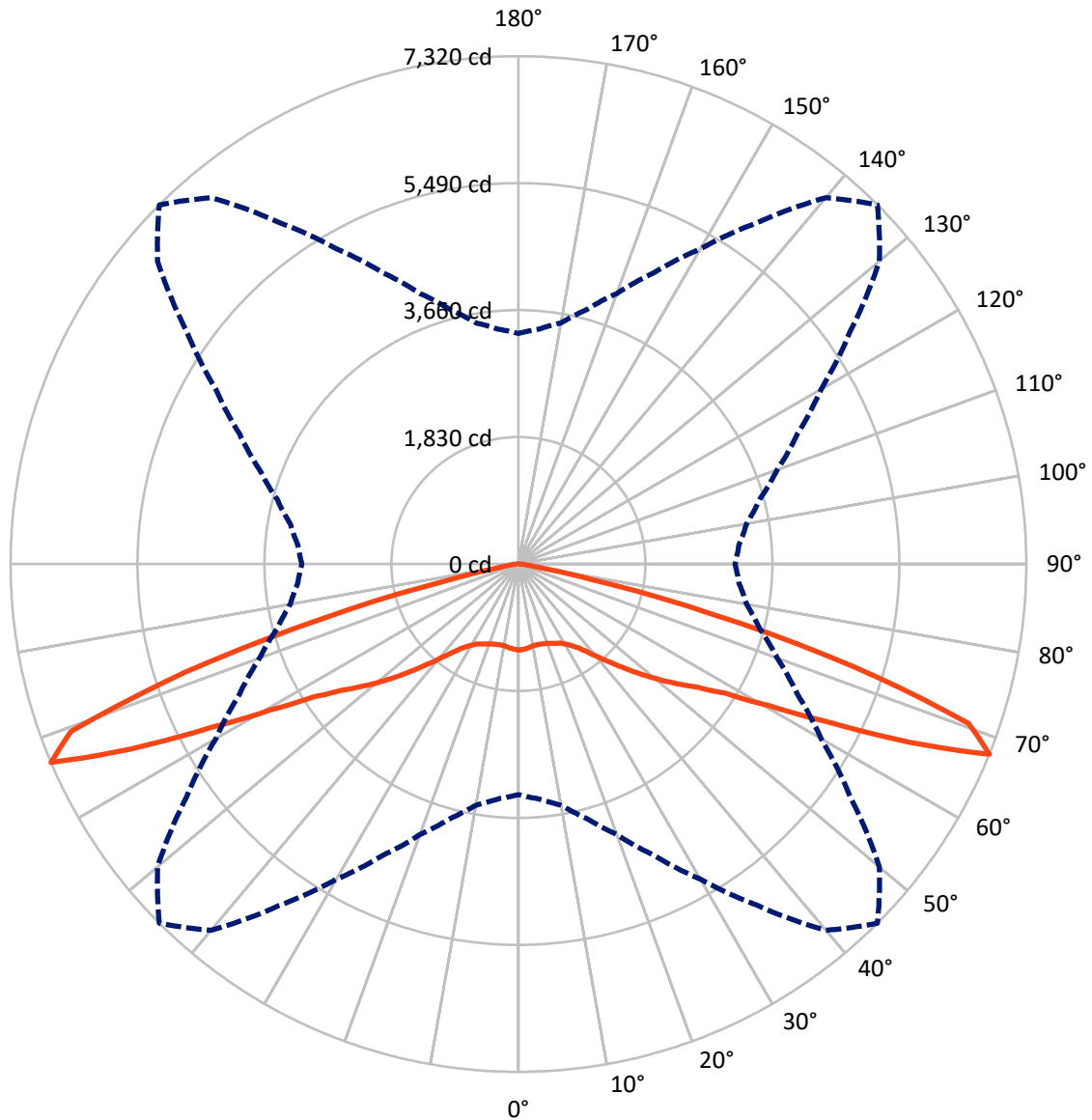
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.1 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	6218.7	0.0	6218.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6218.7	0.0	6218.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	12437.3	0.0	12437.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.0	0.9
10°-20°	336.6	2.7
20°-30°	572.3	4.6
30°-40°	935.5	7.5
40°-50°	1670.0	13.4
50°-60°	2815.6	22.6
60°-70°	4369.4	35.1
70°-80°	1535.2	12.3
80°-90°	86.8	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°	12437.3	100.0
0°-180°	12437.3	100.0



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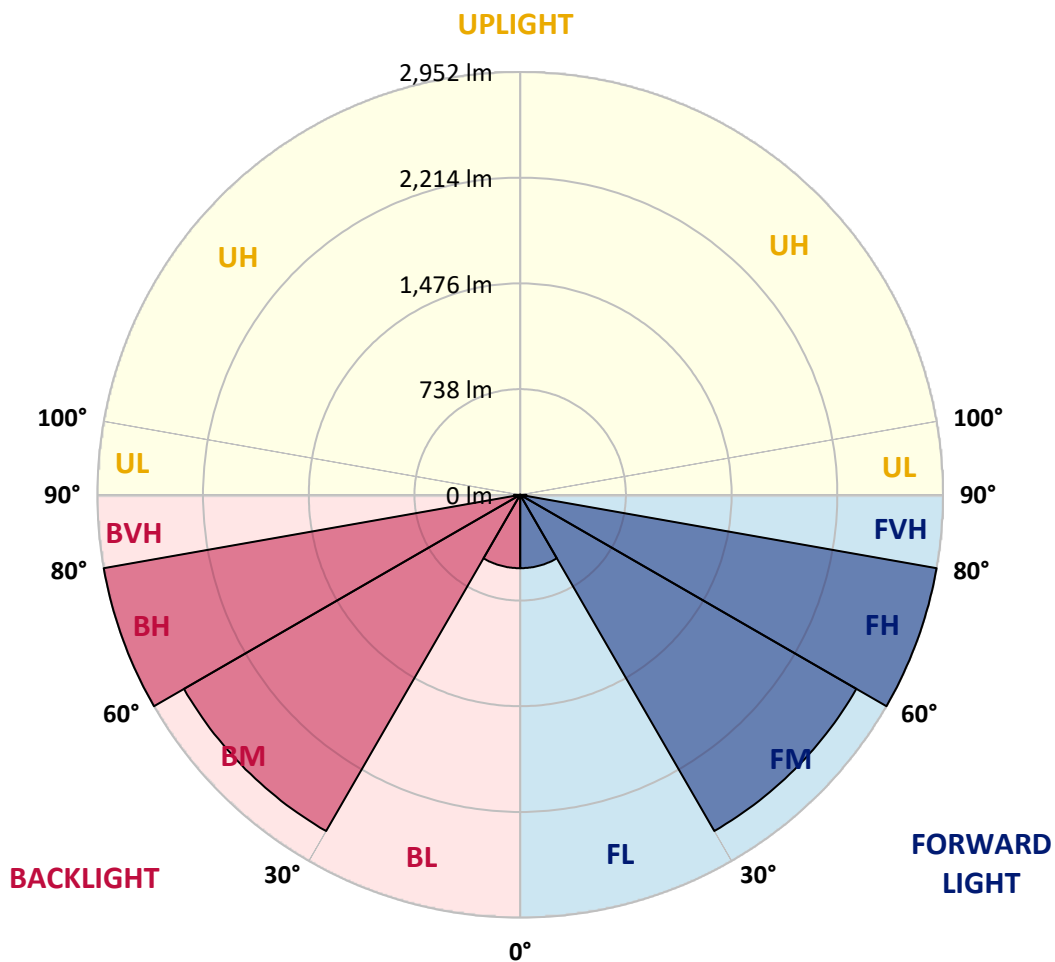
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	512.4	4.1			
FM	(30°-60°)	2710.5	21.8			
FH	(60°-80°)	2952.3	23.7			G2/5000
FVH	(80°-90°)	43.4	0.3			G1/100
BL	(0°-30°)	512.4	4.1	B2/1000		
BM	(30°-60°)	2710.5	21.8	B3/5000		
BH	(60°-80°)	2952.3	23.7	B4/5000		G2/5000
BVH	(80°-90°)	43.4	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°	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4
2.5°	1234.9	1236.0	1236.0	1236.0	1235.3	1235.3	1234.4	1235.3	1234.9	1233.2	1233.7
5°	1224.6	1225.6	1225.6	1225.1	1226.8	1226.2	1224.6	1225.6	1225.1	1224.0	1224.6
7.5°	1209.7	1211.5	1211.5	1210.8	1212.5	1212.0	1210.8	1211.5	1211.5	1209.7	1209.7
10°	1193.0	1194.2	1194.2	1193.7	1196.5	1196.5	1196.0	1197.7	1198.2	1196.5	1195.4
12.5°	1177.7	1179.4	1179.4	1181.7	1184.5	1185.7	1188.5	1190.9	1193.0	1192.5	1190.3
15°	1168.5	1169.7	1172.0	1174.9	1179.4	1183.3	1188.0	1193.0	1197.7	1198.8	1195.4
17.5°	1162.8	1164.6	1167.9	1172.0	1178.2	1185.1	1192.1	1198.8	1205.2	1207.4	1203.4
20°	1161.1	1162.1	1165.6	1172.5	1181.1	1191.4	1201.2	1209.1	1217.7	1220.5	1217.7
22.5°	1164.6	1166.8	1170.9	1178.8	1190.3	1203.4	1214.9	1225.6	1236.5	1241.6	1237.8
25°	1180.0	1182.2	1187.4	1197.7	1210.2	1224.0	1237.1	1249.7	1259.5	1264.6	1261.7
27.5°	1208.5	1211.5	1217.7	1228.1	1241.6	1256.5	1270.9	1281.3	1289.2	1291.0	1287.5
30°	1251.5	1257.7	1265.2	1276.6	1292.7	1305.1	1319.5	1328.7	1338.4	1338.4	1335.5
32.5°	1318.4	1324.6	1332.6	1343.5	1356.1	1369.8	1382.4	1390.4	1400.7	1401.3	1394.3
35°	1418.5	1421.3	1428.1	1435.0	1446.5	1458.5	1469.4	1474.5	1483.1	1483.7	1477.4
37.5°	1550.6	1551.2	1555.8	1558.0	1568.4	1581.5	1591.7	1595.2	1603.1	1602.0	1595.7
40°	1704.4	1707.3	1709.0	1712.4	1723.3	1735.9	1746.8	1748.6	1757.1	1755.4	1747.4
42.5°	1882.3	1883.4	1893.2	1898.3	1908.5	1914.8	1928.7	1930.4	1940.7	1936.0	1927.0
45°	2081.9	2092.2	2101.3	2111.6	2122.5	2130.1	2140.8	2138.5	2145.4	2138.5	2133.5
47.5°	2291.8	2299.3	2319.9	2335.9	2353.6	2359.8	2375.4	2368.6	2375.4	2365.6	2363.9
50°	2522.9	2536.1	2553.8	2572.0	2591.0	2601.2	2621.3	2612.7	2621.9	2612.7	2607.6
52.5°	2750.5	2753.9	2792.9	2819.8	2846.1	2858.0	2870.1	2866.1	2866.6	2866.1	2860.9
55°	2966.7	2974.7	3013.6	3050.3	3096.0	3129.8	3150.4	3148.1	3142.9	3137.8	3129.2
57.5°	3210.5	3218.4	3263.1	3308.2	3360.3	3408.3	3450.0	3493.0	3509.6	3514.1	3495.2
60°	3539.9	3539.3	3598.8	3653.6	3728.1	3799.6	3891.0	3984.3	4091.2	4140.9	4075.3
62.5°	3875.0	3888.8	3974.6	4071.7	4225.1	4374.3	4543.1	4708.9	4878.2	5016.0	4869.6
65°	3835.0	3887.5	4015.2	4235.4	4518.5	4854.8	5218.6	5603.4	5951.2	6190.3	5922.0
67.5°	3323.6	3398.6	3528.5	3796.1	4150.1	4635.2	5246.0	6007.2	6892.1	7319.8	6789.7
70°	2409.1	2493.8	2629.9	2891.3	3241.9	3702.9	4366.3	5280.2	6451.6	6883.0	6298.9
72.5°	1198.8	1244.6	1328.7	1495.0	1760.5	2134.6	2736.2	3614.8	4651.2	5046.9	4513.4
75°	407.2	428.4	442.7	497.0	581.2	728.0	1027.2	1580.3	2410.8	2890.0	2376.5
77.5°	235.0	235.6	245.3	255.1	269.4	285.4	325.5	427.2	738.9	1049.5	764.6
80°	152.2	151.5	159.5	167.1	176.7	184.7	187.0	197.8	228.2	270.5	242.0
82.5°	79.0	88.7	106.4	116.2	134.3	137.8	133.3	129.3	136.7	141.8	145.3
85°	43.5	37.8	56.7	73.2	81.2	82.4	82.4	77.9	80.7	79.0	85.8
87.5°	20.0	18.2	22.3	36.0	38.3	32.6	34.3	30.4	21.6	21.2	24.1
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4
2.5°	1233.7	1234.4	1234.4	1236.0	1236.5	1237.8	1238.9	1239.4
5°	1224.0	1225.6	1224.6	1226.2	1226.2	1227.4	1227.4	1228.1
7.5°	1209.7	1211.5	1211.5	1211.5	1210.8	1212.5	1212.5	1212.5
10°	1194.8	1196.0	1195.4	1194.2	1193.0	1194.8	1194.2	1193.7
12.5°	1190.3	1187.4	1185.1	1184.0	1181.7	1182.2	1180.6	1180.6
15°	1193.0	1188.0	1184.0	1182.2	1180.0	1178.8	1177.7	1178.2
17.5°	1200.6	1194.2	1189.0	1186.2	1183.3	1181.7	1179.4	1180.0
20°	1213.7	1206.2	1198.8	1193.0	1188.0	1185.1	1183.3	1182.8
22.5°	1233.2	1222.2	1211.5	1202.8	1196.0	1192.1	1190.3	1189.0
25°	1255.4	1243.4	1230.9	1221.2	1214.2	1209.1	1205.6	1205.6
27.5°	1283.5	1273.7	1262.3	1250.9	1244.6	1239.4	1237.1	1236.0
30°	1330.4	1321.2	1312.1	1301.3	1293.2	1288.1	1284.0	1280.7
32.5°	1390.4	1383.0	1375.6	1367.6	1360.2	1353.2	1347.0	1344.1
35°	1475.0	1469.4	1464.1	1455.1	1452.2	1448.2	1444.7	1441.9
37.5°	1591.7	1589.6	1589.6	1579.8	1577.5	1575.7	1572.4	1572.9
40°	1745.0	1747.4	1744.5	1741.1	1739.3	1734.7	1734.7	1738.8
42.5°	1926.3	1928.0	1934.4	1928.7	1934.9	1929.2	1925.7	1928.7
45°	2136.9	2143.1	2155.8	2150.1	2154.0	2144.3	2132.2	2132.8
47.5°	2373.1	2378.8	2383.9	2379.9	2380.5	2364.5	2348.4	2344.4
50°	2618.4	2620.7	2623.6	2617.8	2619.0	2601.2	2582.9	2583.5
52.5°	2860.9	2871.8	2883.2	2867.7	2864.3	2844.4	2818.6	2808.3
55°	3138.3	3153.8	3140.7	3113.7	3086.8	3059.9	3026.2	3020.6
57.5°	3480.4	3454.1	3412.9	3361.9	3324.7	3287.1	3252.8	3238.4
60°	3956.2	3857.3	3782.9	3707.5	3660.0	3613.6	3568.4	3561.6
62.5°	4628.8	4457.7	4309.7	4153.6	4026.1	3926.5	3847.0	3824.7
65°	5471.9	5067.6	4716.9	4389.7	4105.6	3891.0	3756.1	3696.5
67.5°	5834.5	5036.1	4434.9	3970.5	3598.8	3339.1	3193.2	3120.6
70°	5127.0	4176.4	3522.8	3057.7	2719.1	2442.2	2310.1	2232.4
72.5°	3527.3	2656.7	2100.7	1714.8	1444.1	1212.5	1121.1	1114.2
75°	1583.7	1049.0	723.0	557.0	469.0	407.8	389.0	374.7
77.5°	443.3	327.7	292.3	273.4	255.1	233.9	226.0	227.6
80°	215.7	203.6	195.7	183.7	167.1	149.3	141.3	144.6
82.5°	143.0	141.3	146.5	137.8	113.8	96.7	81.2	74.4
85°	87.0	88.0	89.8	90.4	76.6	53.8	36.7	41.2
87.5°	34.3	39.4	42.8	44.6	41.7	25.7	20.7	21.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)