

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: P193332

Luminaire Tested: **GLEON-AF-04-LED-E1-5MQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193332
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-04-LED-E1-5MQ-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13561 lumens
Efficiency: N/A
Efficacy: 105.1 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): 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

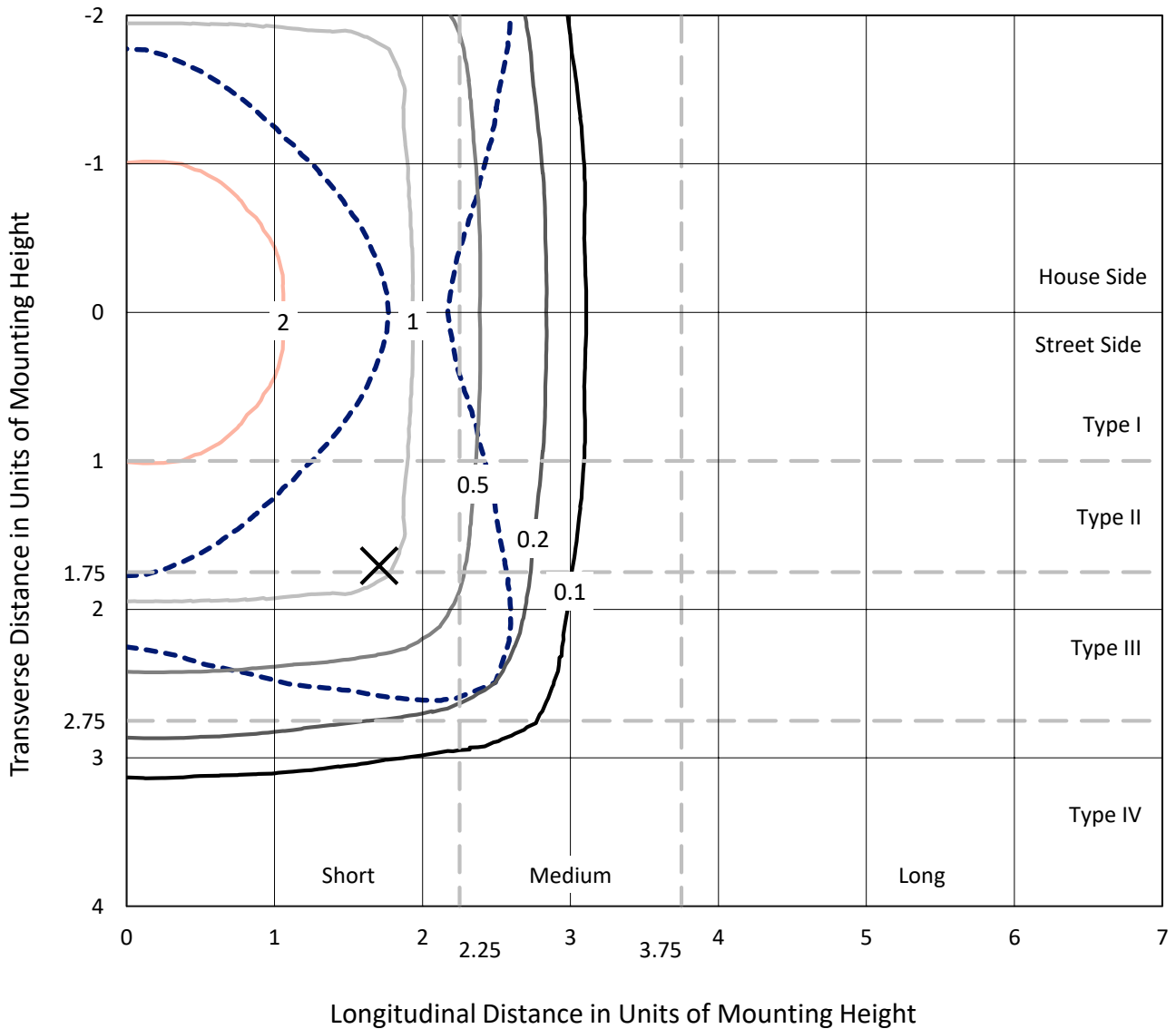


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Iso-Footcandle Lines of Horizontal Illumination

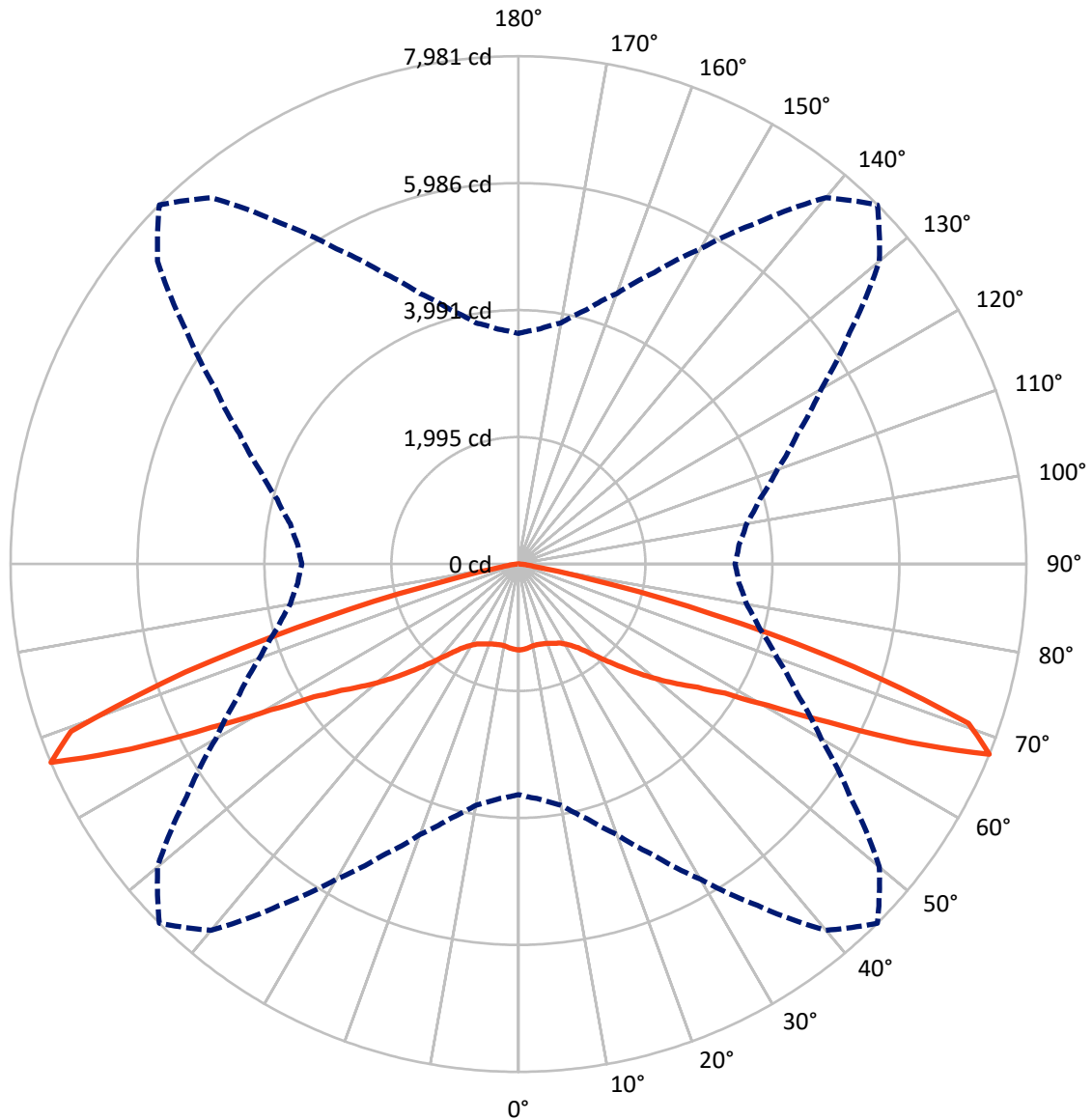
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.4 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	6780.5	0.0	6780.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6780.5	0.0	6780.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13561.0	0.0	13561.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	0.9
10°-20°	367.0	2.7
20°-30°	624.0	4.6
30°-40°	1020.0	7.5
40°-50°	1820.8	13.4
50°-60°	3070.0	22.6
60°-70°	4764.2	35.1
70°-80°	1673.9	12.3
80°-90°	94.6	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°	13561.0	100.0
0°-180°	13561.0	100.0



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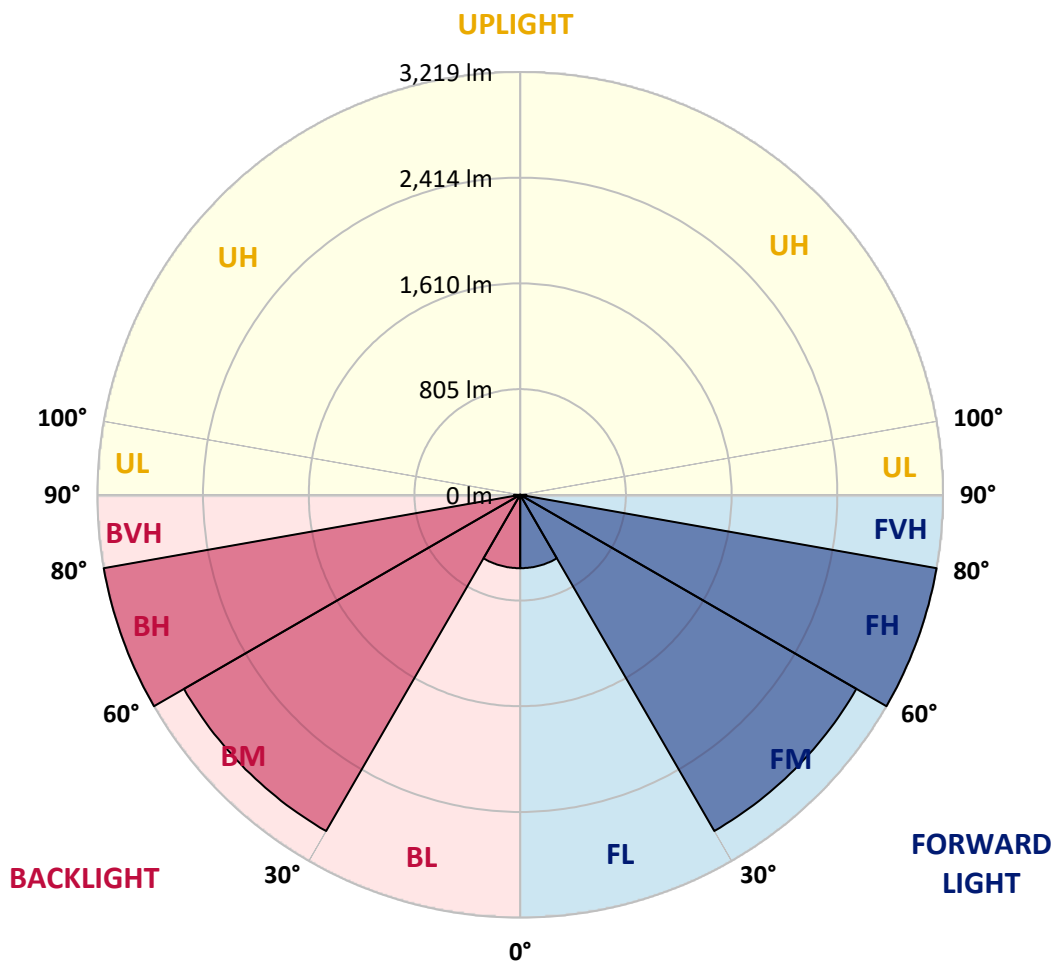
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	558.7	4.1			
FM	(30°-60°)	2955.4	21.8			
FH	(60°-80°)	3219.0	23.7			G2/5000
FVH	(80°-90°)	47.3	0.3			G1/100
BL	(0°-30°)	558.7	4.1	B2/1000		
BM	(30°-60°)	2955.4	21.8	B3/5000		
BH	(60°-80°)	3219.0	23.7	B4/5000		G2/5000
BVH	(80°-90°)	47.3	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°	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4
2.5°	1346.4	1347.7	1347.7	1347.7	1347.0	1347.0	1345.8	1347.0	1346.4	1344.6	1345.2
5°	1335.2	1336.4	1336.4	1335.8	1337.7	1337.1	1335.2	1336.4	1335.8	1334.6	1335.2
7.5°	1319.0	1320.9	1320.9	1320.2	1322.1	1321.5	1320.2	1320.9	1320.9	1319.0	1319.0
10°	1300.9	1302.1	1302.1	1301.5	1304.6	1304.6	1304.0	1305.9	1306.5	1304.6	1303.4
12.5°	1284.1	1285.9	1285.9	1288.4	1291.5	1292.8	1295.9	1298.4	1300.9	1300.3	1297.8
15°	1274.1	1275.3	1277.8	1280.9	1285.9	1290.3	1295.3	1300.9	1305.9	1307.1	1303.4
17.5°	1267.8	1269.7	1273.5	1277.8	1284.7	1292.2	1299.6	1307.1	1314.0	1316.5	1312.1
20°	1266.0	1267.2	1271.0	1278.4	1287.8	1299.0	1309.6	1318.4	1327.7	1330.8	1327.7
22.5°	1269.7	1272.2	1276.6	1285.3	1297.8	1312.1	1324.6	1336.4	1348.3	1353.9	1349.5
25°	1286.6	1289.0	1294.7	1305.9	1319.6	1334.6	1348.9	1362.6	1373.2	1378.9	1375.7
27.5°	1317.7	1320.9	1327.7	1338.9	1353.9	1370.1	1385.7	1396.9	1405.7	1407.5	1403.8
30°	1364.5	1371.4	1379.5	1391.9	1409.4	1423.1	1438.7	1448.7	1459.3	1459.3	1456.2
32.5°	1437.5	1444.3	1453.1	1464.9	1478.6	1493.6	1507.3	1516.0	1527.3	1527.9	1520.4
35°	1546.6	1549.7	1557.2	1564.7	1577.2	1590.3	1602.1	1607.7	1617.1	1617.7	1610.8
37.5°	1690.7	1691.3	1696.3	1698.8	1710.0	1724.3	1735.6	1739.3	1748.0	1746.8	1739.9
40°	1858.4	1861.5	1863.4	1867.2	1879.0	1892.7	1904.6	1906.4	1915.8	1913.9	1905.2
42.5°	2052.4	2053.6	2064.2	2069.8	2081.1	2087.9	2102.9	2104.8	2116.0	2111.0	2101.0
45°	2270.0	2281.2	2291.2	2302.4	2314.3	2322.4	2334.3	2331.8	2339.2	2331.8	2326.1
47.5°	2498.9	2507.0	2529.5	2546.9	2566.2	2573.1	2589.9	2582.5	2589.9	2579.3	2577.5
50°	2750.8	2765.2	2784.5	2804.5	2825.1	2836.3	2858.1	2848.8	2858.7	2848.8	2843.1
52.5°	2999.0	3002.8	3045.2	3074.5	3103.2	3116.3	3129.4	3125.0	3125.6	3125.0	3119.4
55°	3234.8	3243.5	3285.9	3325.8	3375.7	3412.5	3435.0	3432.5	3426.9	3421.2	3411.9
57.5°	3500.4	3509.2	3557.8	3607.1	3663.8	3716.2	3761.7	3808.5	3826.6	3831.6	3811.0
60°	3859.7	3859.0	3923.9	3983.8	4064.8	4142.8	4242.6	4344.2	4460.8	4515.1	4443.4
62.5°	4225.1	4240.1	4333.6	4439.6	4606.8	4769.5	4953.5	5134.4	5319.0	5469.3	5309.6
65°	4181.5	4238.8	4377.9	4618.0	4926.7	5293.4	5690.0	6109.7	6488.9	6749.6	6457.1
67.5°	3623.9	3705.6	3847.2	4139.0	4525.1	5053.9	5720.0	6550.0	7514.8	7981.2	7403.1
70°	2626.7	2719.0	2867.5	3152.5	3534.7	4037.4	4760.8	5757.4	7034.6	7504.8	6868.1
72.5°	1307.1	1357.0	1448.7	1630.2	1919.5	2327.4	2983.5	3941.4	5071.4	5502.9	4921.1
75°	444.0	467.1	482.7	541.9	633.6	793.9	1120.0	1723.1	2628.6	3151.2	2591.2
77.5°	256.3	256.9	267.5	278.1	293.7	311.2	354.8	465.9	805.7	1144.4	833.8
80°	165.9	165.3	174.0	182.1	192.7	201.4	203.9	215.8	248.8	295.0	263.8
82.5°	86.1	96.7	116.0	126.6	146.6	150.3	145.3	140.9	149.0	154.7	158.4
85°	47.4	41.2	61.7	79.8	88.6	89.8	89.8	84.8	87.9	86.1	93.5
87.5°	21.8	20.0	24.3	39.3	41.8	35.5	37.4	33.1	23.7	23.1	26.2
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°	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4
2.5°	1345.2	1345.8	1345.8	1347.7	1348.3	1349.5	1350.8	1351.4
5°	1334.6	1336.4	1335.2	1337.1	1337.1	1338.3	1338.3	1338.9
7.5°	1319.0	1320.9	1320.9	1320.9	1320.2	1322.1	1322.1	1322.1
10°	1302.8	1304.0	1303.4	1302.1	1300.9	1302.8	1302.1	1301.5
12.5°	1297.8	1294.7	1292.2	1290.9	1288.4	1289.0	1287.2	1287.2
15°	1300.9	1295.3	1290.9	1289.0	1286.6	1285.3	1284.1	1284.7
17.5°	1309.0	1302.1	1296.5	1293.4	1290.3	1288.4	1285.9	1286.6
20°	1323.3	1315.2	1307.1	1300.9	1295.3	1292.2	1290.3	1289.7
22.5°	1344.6	1332.7	1320.9	1311.5	1304.0	1299.6	1297.8	1296.5
25°	1368.9	1355.8	1342.1	1331.5	1324.0	1318.4	1314.6	1314.6
27.5°	1399.4	1388.8	1376.4	1363.9	1357.0	1351.4	1348.9	1347.7
30°	1450.6	1440.6	1430.6	1418.8	1410.0	1404.4	1400.1	1396.3
32.5°	1516.0	1507.9	1499.8	1491.1	1483.0	1475.5	1468.7	1465.5
35°	1608.3	1602.1	1596.5	1586.5	1583.4	1579.0	1575.3	1572.2
37.5°	1735.6	1733.1	1733.1	1722.5	1720.0	1718.1	1714.4	1715.0
40°	1902.7	1905.2	1902.1	1898.3	1896.5	1891.5	1891.5	1895.8
42.5°	2100.4	2102.3	2109.1	2102.9	2109.7	2103.5	2099.8	2102.9
45°	2329.9	2336.7	2350.5	2344.2	2348.6	2338.0	2324.9	2325.5
47.5°	2587.4	2593.7	2599.3	2594.9	2595.6	2578.1	2560.6	2556.3
50°	2855.0	2857.5	2860.6	2854.4	2855.6	2836.3	2816.3	2816.9
52.5°	3119.4	3131.3	3143.7	3126.9	3123.1	3101.3	3073.3	3062.0
55°	3421.9	3438.7	3424.4	3395.1	3365.7	3336.4	3299.6	3293.4
57.5°	3794.8	3766.1	3721.2	3665.7	3625.2	3584.0	3546.6	3531.0
60°	4313.7	4205.8	4124.7	4042.4	3990.6	3940.1	3890.8	3883.4
62.5°	5047.1	4860.6	4699.1	4528.8	4389.7	4281.2	4194.5	4170.2
65°	5966.3	5525.4	5143.1	4786.4	4476.4	4242.6	4095.4	4030.5
67.5°	6361.7	5491.1	4835.6	4329.3	3923.9	3640.8	3481.7	3402.5
70°	5590.2	4553.8	3841.0	3333.9	2964.7	2662.9	2518.9	2434.0
72.5°	3845.9	2896.8	2290.6	1869.6	1574.7	1322.1	1222.3	1214.8
75°	1726.8	1143.7	788.3	607.4	511.4	444.6	424.1	408.5
77.5°	483.3	357.3	318.7	298.1	278.1	255.1	246.3	248.2
80°	235.1	222.0	213.3	200.2	182.1	162.8	154.0	157.8
82.5°	155.9	154.0	159.6	150.3	124.1	105.4	88.6	81.1
85°	94.8	96.0	97.9	98.5	83.6	58.6	39.9	44.9
87.5°	37.4	43.0	46.8	48.6	45.5	28.1	22.5	23.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)