

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: P200066

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200066
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: GWC-AF-02-LED-E1-5MQ-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 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: 14643.5 lumens
Efficiency: N/A
Efficacy: 113.5 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

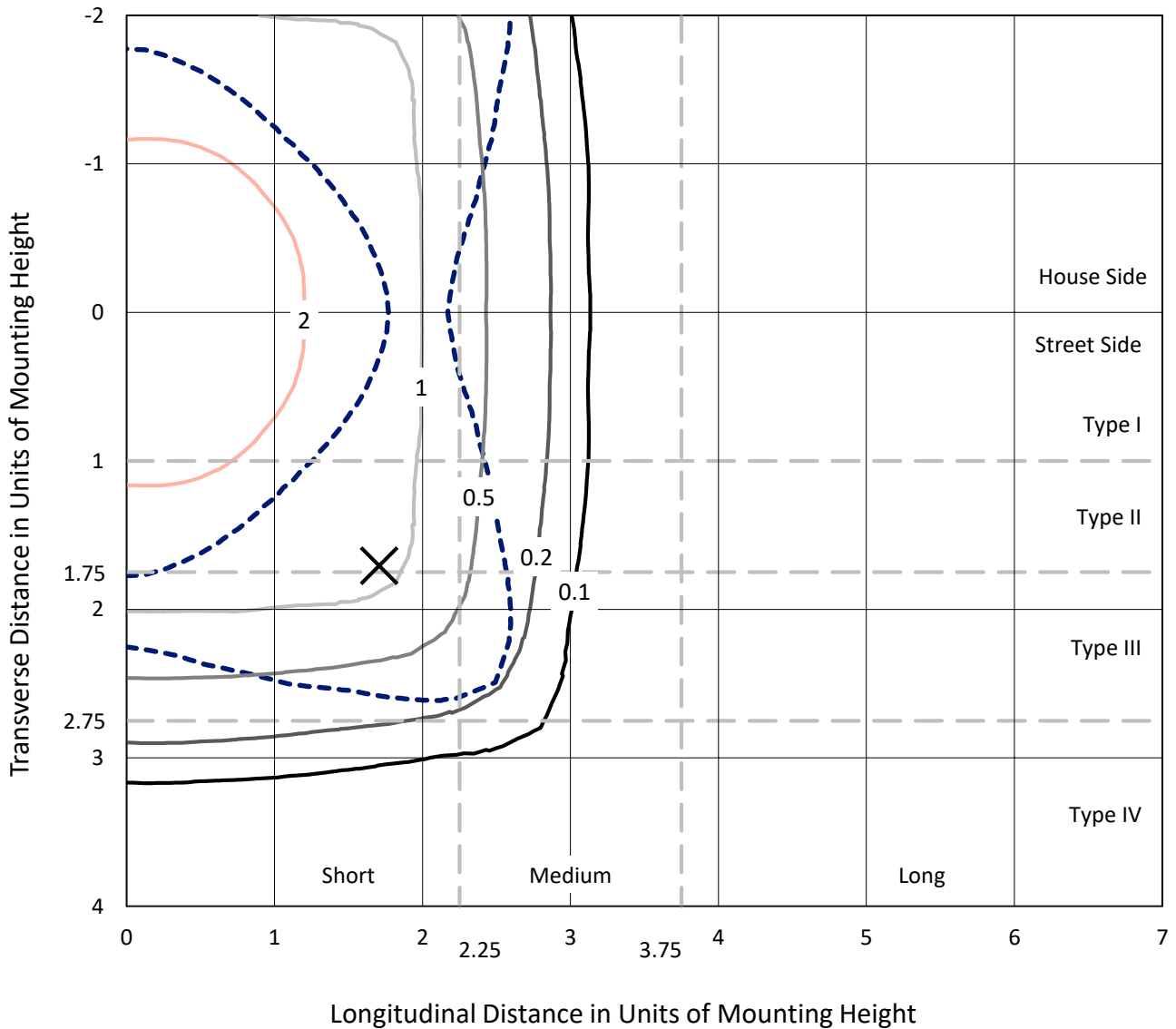
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

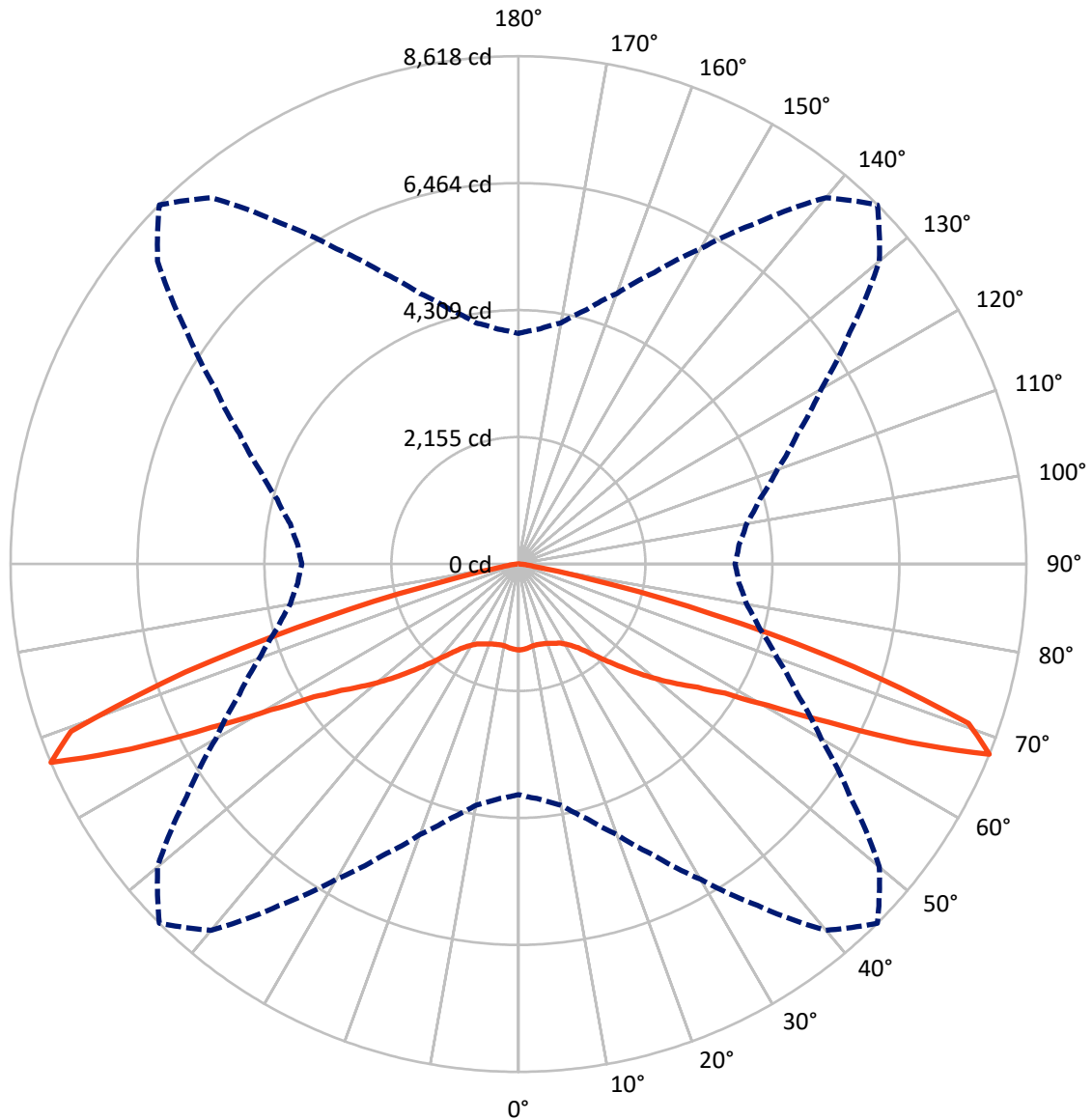
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 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	7321.8	0.0	7321.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7321.8	0.0	7321.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	14643.5	0.0	14643.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	0.9
10°-20°	396.3	2.7
20°-30°	673.8	4.6
30°-40°	1101.4	7.5
40°-50°	1966.2	13.4
50°-60°	3315.1	22.6
60°-70°	5144.5	35.1
70°-80°	1807.5	12.3
80°-90°	102.1	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°	14643.5	100.0
0°-180°	14643.5	100.0



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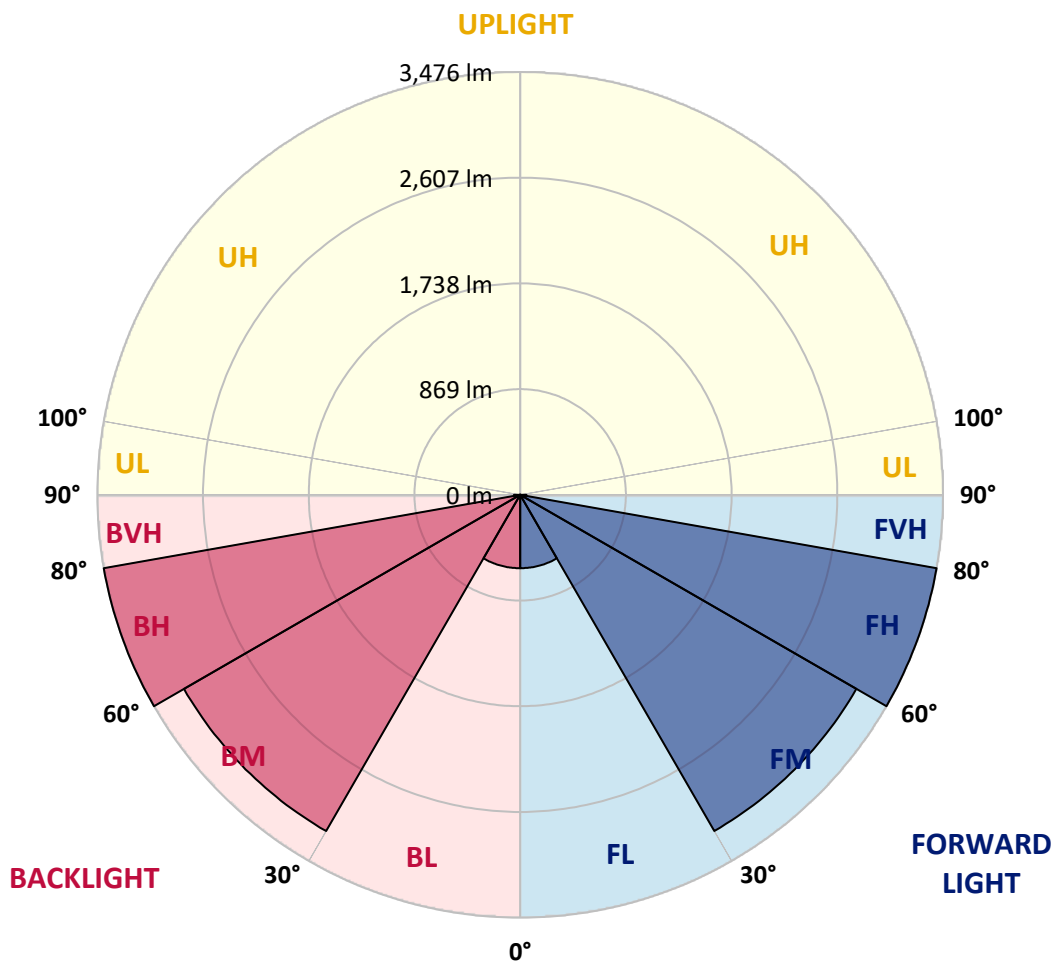
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	603.3	4.1			
FM	(30°-60°)	3191.3	21.8			
FH	(60°-80°)	3476.0	23.7			G2/5000
FVH	(80°-90°)	51.1	0.3			G1/100
BL	(0°-30°)	603.3	4.1	B2/1000		
BM	(30°-60°)	3191.3	21.8	B3/5000		
BH	(60°-80°)	3476.0	23.7	B4/5000		G2/5000
BVH	(80°-90°)	51.1	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°	1459.3	1459.3	1459.3	1459.3	1459.3	1459.3	1459.3	1459.3	1459.3	1459.3	1459.3
2.5°	1453.9	1455.2	1455.2	1455.2	1454.5	1454.5	1453.2	1454.5	1453.9	1451.9	1452.6
5°	1441.7	1443.2	1443.2	1442.5	1444.5	1443.8	1441.7	1443.2	1442.5	1441.1	1441.7
7.5°	1424.3	1426.3	1426.3	1425.6	1427.6	1427.0	1425.6	1426.3	1426.3	1424.3	1424.3
10°	1404.7	1406.0	1406.0	1405.4	1408.8	1408.8	1408.1	1410.1	1410.9	1408.8	1407.5
12.5°	1386.6	1388.6	1388.6	1391.3	1394.7	1396.0	1399.4	1402.1	1404.7	1404.1	1401.3
15°	1375.8	1377.1	1379.9	1383.2	1388.6	1393.3	1398.7	1404.7	1410.1	1411.5	1407.5
17.5°	1369.0	1371.1	1375.2	1379.9	1387.2	1395.3	1403.4	1411.5	1418.9	1421.6	1416.9
20°	1367.1	1368.4	1372.4	1380.5	1390.6	1402.8	1414.1	1423.6	1433.7	1437.0	1433.7
22.5°	1371.1	1373.7	1378.5	1387.9	1401.3	1416.9	1430.3	1443.2	1456.0	1462.0	1457.3
25°	1389.3	1391.9	1398.0	1410.1	1425.0	1441.1	1456.6	1471.4	1482.9	1488.9	1485.5
27.5°	1422.9	1426.3	1433.7	1445.8	1462.0	1479.5	1496.4	1508.4	1517.9	1519.9	1515.8
30°	1473.5	1480.8	1489.6	1503.0	1521.9	1536.8	1553.6	1564.3	1575.8	1575.8	1572.4
32.5°	1552.2	1559.6	1569.1	1581.9	1596.6	1612.8	1627.6	1637.0	1649.2	1649.9	1641.8
35°	1670.1	1673.4	1681.5	1689.6	1703.1	1717.2	1730.0	1736.0	1746.2	1746.8	1739.4
37.5°	1825.7	1826.3	1831.7	1834.4	1846.5	1862.0	1874.1	1878.1	1887.5	1886.2	1878.9
40°	2006.8	2010.1	2012.1	2016.2	2029.0	2043.9	2056.6	2058.6	2068.7	2066.7	2057.3
42.5°	2216.2	2217.6	2229.0	2235.0	2247.2	2254.6	2270.7	2272.8	2284.9	2279.5	2268.7
45°	2451.2	2463.4	2474.1	2486.3	2499.1	2507.8	2520.6	2517.9	2526.0	2517.9	2511.9
47.5°	2698.3	2707.1	2731.4	2750.2	2771.1	2778.5	2796.6	2788.6	2796.6	2785.3	2783.2
50°	2970.4	2985.9	3006.8	3028.3	3050.5	3062.7	3086.2	3076.1	3087.0	3076.1	3070.1
52.5°	3238.5	3242.4	3288.3	3320.0	3350.9	3365.1	3379.2	3374.5	3375.1	3374.5	3368.4
55°	3493.0	3502.5	3548.2	3591.3	3645.2	3685.0	3709.2	3706.5	3700.4	3694.4	3684.3
57.5°	3779.9	3789.3	3841.8	3895.0	3956.4	4012.8	4062.0	4112.6	4132.1	4137.4	4115.2
60°	4167.8	4167.1	4237.2	4301.8	4389.3	4473.5	4581.3	4691.0	4817.0	4875.5	4798.0
62.5°	4562.4	4578.5	4679.6	4794.1	4974.5	5150.3	5348.9	5544.2	5743.6	5905.8	5733.4
65°	4515.2	4577.2	4727.4	4986.7	5320.0	5715.9	6144.3	6597.4	7006.9	7288.4	6972.5
67.5°	3913.2	4001.5	4154.3	4469.5	4886.3	5457.3	6176.6	7072.9	8114.7	8618.4	7994.2
70°	2836.4	2936.1	3096.4	3404.1	3816.9	4359.7	5140.8	6217.0	7596.1	8103.9	7416.3
72.5°	1411.5	1465.4	1564.3	1760.3	2072.8	2513.2	3221.6	4256.0	5476.2	5942.2	5313.9
75°	479.5	504.4	521.2	585.2	684.1	857.2	1209.4	1860.6	2838.5	3402.7	2798.1
77.5°	276.8	277.4	288.9	300.3	317.2	336.0	383.2	503.1	870.0	1235.7	900.4
80°	179.1	178.5	187.9	196.6	208.1	217.5	220.2	233.0	268.7	318.5	284.9
82.5°	92.9	104.3	125.2	136.7	158.3	162.3	156.9	152.2	160.9	167.0	171.0
85°	51.1	44.4	66.7	86.2	95.6	97.0	97.0	91.6	94.9	92.9	101.0
87.5°	23.5	21.6	26.3	42.5	45.1	38.4	40.4	35.7	25.6	25.0	28.2
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°	1459.3	1459.3	1459.3	1459.3	1459.3	1459.3	1459.3	1459.3
2.5°	1452.6	1453.2	1453.2	1455.2	1456.0	1457.3	1458.6	1459.3
5°	1441.1	1443.2	1441.7	1443.8	1443.8	1445.1	1445.1	1445.8
7.5°	1424.3	1426.3	1426.3	1426.3	1425.6	1427.6	1427.6	1427.6
10°	1406.8	1408.1	1407.5	1406.0	1404.7	1406.8	1406.0	1405.4
12.5°	1401.3	1398.0	1395.3	1394.0	1391.3	1391.9	1389.9	1389.9
15°	1404.7	1398.7	1394.0	1391.9	1389.3	1387.9	1386.6	1387.2
17.5°	1413.5	1406.0	1400.0	1396.6	1393.3	1391.3	1388.6	1389.3
20°	1429.0	1420.3	1411.5	1404.7	1398.7	1395.3	1393.3	1392.6
22.5°	1451.9	1439.1	1426.3	1416.2	1408.1	1403.4	1401.3	1400.0
25°	1478.2	1464.0	1449.2	1437.8	1429.7	1423.6	1419.5	1419.5
27.5°	1511.1	1499.6	1486.2	1472.7	1465.4	1459.3	1456.6	1455.2
30°	1566.3	1555.6	1544.9	1532.0	1522.6	1516.5	1511.8	1507.7
32.5°	1637.0	1628.3	1619.5	1610.1	1601.4	1593.3	1585.9	1582.5
35°	1736.8	1730.0	1724.0	1713.1	1709.8	1705.1	1701.1	1697.7
37.5°	1874.1	1871.4	1871.4	1859.9	1857.3	1855.2	1851.2	1851.8
40°	2054.6	2057.3	2053.9	2049.9	2047.8	2042.4	2042.4	2047.2
42.5°	2268.1	2270.1	2277.5	2270.7	2278.2	2271.5	2267.4	2270.7
45°	2515.8	2523.3	2538.1	2531.4	2536.1	2524.6	2510.5	2511.1
47.5°	2794.0	2800.7	2806.8	2802.1	2802.8	2783.9	2765.0	2760.3
50°	3082.9	3085.6	3089.0	3082.3	3083.6	3062.7	3041.1	3041.8
52.5°	3368.4	3381.3	3394.7	3376.5	3372.5	3348.9	3318.6	3306.5
55°	3695.0	3713.2	3697.8	3666.1	3634.4	3602.7	3563.0	3556.3
57.5°	4097.7	4066.7	4018.3	3958.3	3914.5	3870.1	3829.7	3812.8
60°	4658.0	4541.5	4453.9	4365.0	4309.2	4254.7	4201.5	4193.4
62.5°	5450.0	5248.6	5074.1	4890.3	4740.1	4623.0	4529.4	4503.1
65°	6442.5	5966.5	5553.7	5168.5	4833.7	4581.3	4422.3	4352.2
67.5°	6869.5	5929.4	5221.7	4674.9	4237.2	3931.4	3759.7	3674.1
70°	6036.5	4917.3	4147.6	3600.1	3201.4	2875.5	2719.9	2628.4
72.5°	4153.0	3128.0	2473.5	2018.9	1700.3	1427.6	1319.9	1311.8
75°	1864.7	1235.0	851.2	655.9	552.2	480.2	457.9	441.1
77.5°	521.9	385.9	344.1	321.9	300.3	275.4	266.0	268.0
80°	253.9	239.8	230.3	216.1	196.6	175.7	166.3	170.4
82.5°	168.4	166.3	172.4	162.3	134.0	113.9	95.6	87.6
85°	102.4	103.7	105.8	106.4	90.2	63.3	43.1	48.5
87.5°	40.4	46.4	50.5	52.5	49.2	30.3	24.2	25.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)