

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: P191810

Luminaire Tested: **GLEON-AF-02-LED-E1-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
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-RW-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12449 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

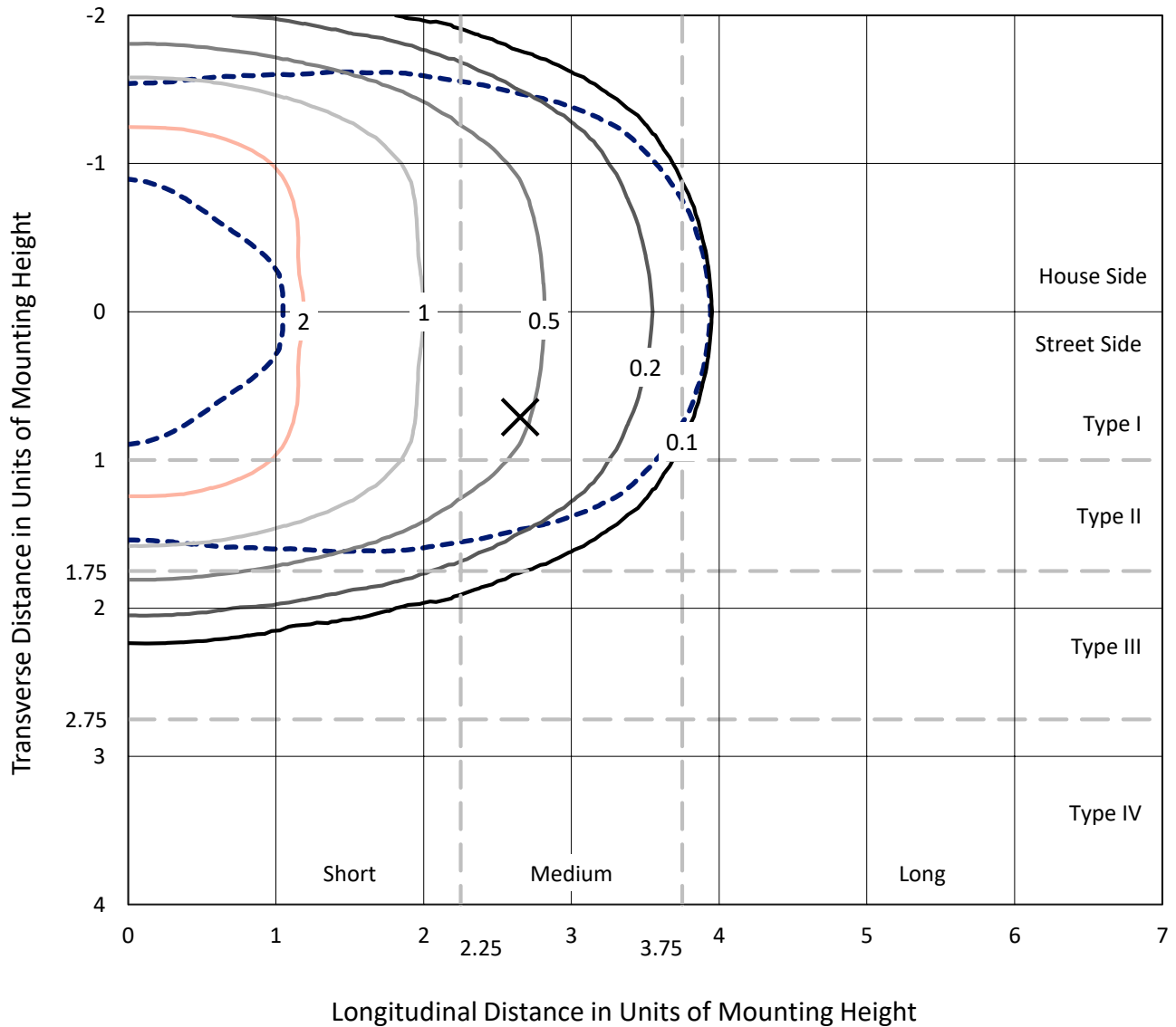
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

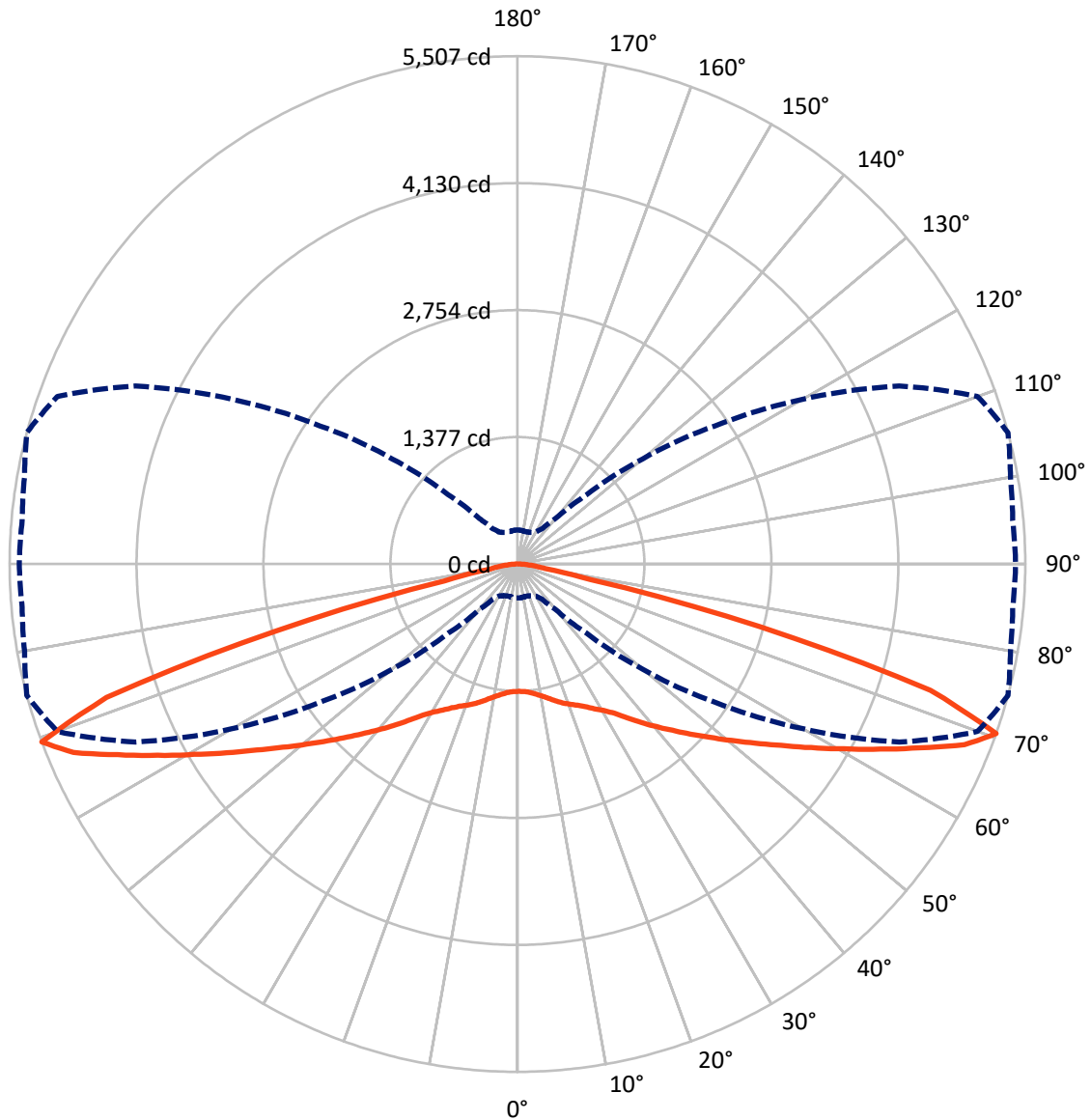
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6224.5	0.0	6224.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6224.5	0.0	6224.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12449.0	0.0	12449.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	1.1
10°-20°	411.5	3.3
20°-30°	774.5	6.2
30°-40°	1371.5	11.0
40°-50°	2293.6	18.4
50°-60°	3196.1	25.7
60°-70°	2963.9	23.8
70°-80°	1181.2	9.5
80°-90°	124.2	1.0
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°	12449.0	100.0
0°-180°	12449.0	100.0



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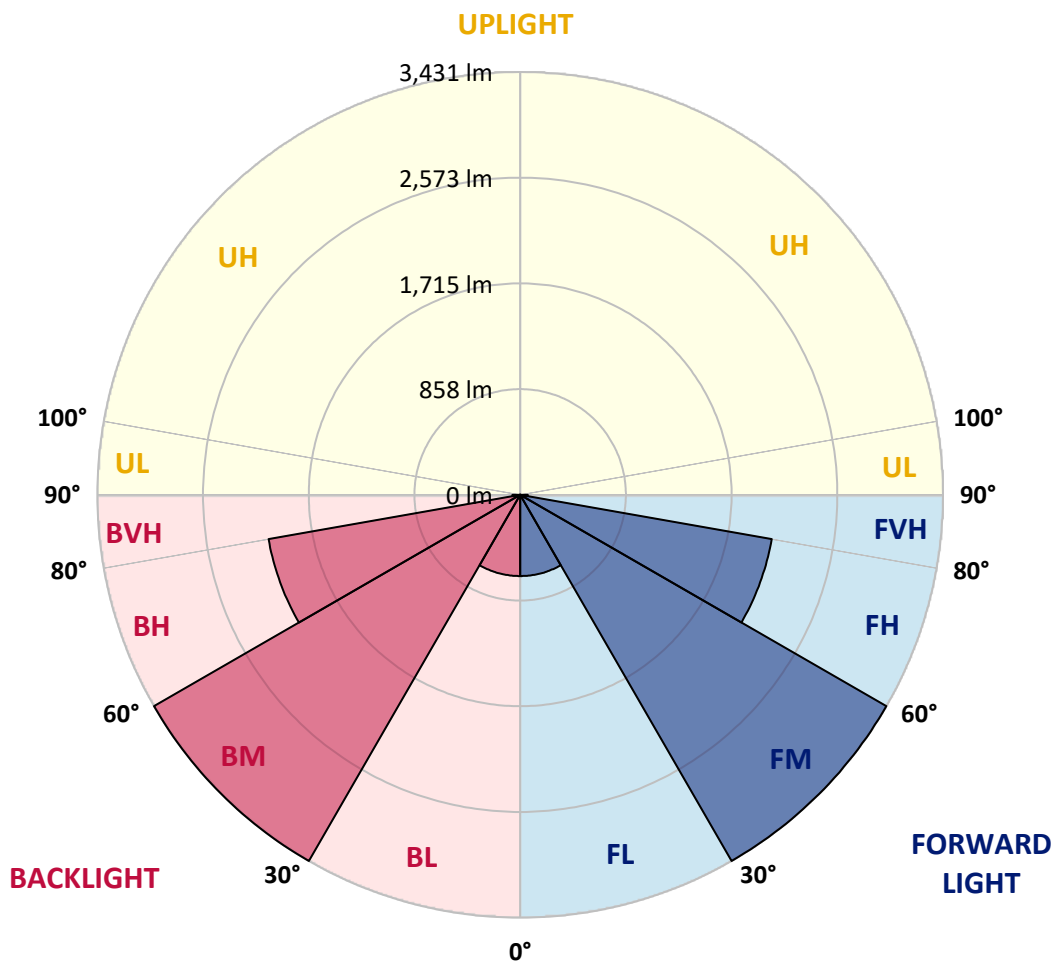
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	659.2	5.3			
FM	(30°-60°)	3430.6	27.6			
FH	(60°-80°)	2072.6	16.6			G2/5000
FVH	(80°-90°)	62.1	0.5			G1/100
BL	(0°-30°)	659.2	5.3	B2/1000		
BM	(30°-60°)	3430.6	27.6	B3/5000		
BH	(60°-80°)	2072.6	16.6	B3/2500		G3/2500
BVH	(80°-90°)	62.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1380.9	1380.9	1380.9	1380.9	1380.9	1380.9	1380.9	1380.9	1380.9	1380.9	1380.9
2.5°	1378.5	1377.4	1378.5	1377.9	1379.1	1379.1	1380.3	1382.6	1382.6	1384.4	1383.8
5°	1365.0	1364.4	1366.2	1367.9	1369.7	1373.2	1376.8	1382.1	1386.2	1389.1	1392.1
7.5°	1338.5	1338.5	1340.9	1345.0	1349.1	1356.8	1365.0	1375.6	1386.2	1395.0	1402.7
10°	1316.8	1317.9	1320.9	1327.9	1335.0	1346.8	1357.9	1373.2	1387.9	1402.7	1414.4
12.5°	1303.8	1305.6	1310.9	1321.5	1333.2	1349.1	1366.2	1385.6	1402.1	1419.7	1431.5
15°	1307.9	1309.1	1316.8	1329.7	1345.0	1365.0	1387.9	1410.9	1430.3	1449.1	1465.0
17.5°	1330.9	1332.6	1341.5	1356.2	1372.1	1395.6	1420.3	1446.2	1470.3	1491.5	1510.9
20°	1372.1	1373.8	1385.0	1400.9	1419.7	1443.8	1468.6	1495.6	1522.7	1545.0	1566.8
22.5°	1430.3	1433.2	1443.8	1459.7	1480.9	1506.8	1536.2	1565.0	1590.9	1611.5	1630.9
25°	1506.8	1513.3	1523.3	1540.9	1563.3	1586.8	1618.6	1648.0	1672.7	1692.1	1706.2
27.5°	1615.1	1623.9	1631.5	1648.6	1670.4	1692.7	1724.5	1750.4	1773.9	1792.7	1803.3
30°	1758.6	1767.4	1775.1	1791.6	1811.6	1832.7	1862.8	1885.7	1900.4	1915.1	1914.5
32.5°	1932.8	1942.2	1945.1	1962.8	1983.4	2006.3	2033.4	2046.3	2058.1	2059.9	2049.3
35°	2127.5	2132.2	2144.0	2167.5	2191.1	2209.9	2235.8	2242.2	2242.2	2233.4	2209.9
37.5°	2341.1	2344.0	2360.5	2387.0	2411.1	2430.5	2448.2	2461.1	2454.6	2435.8	2396.4
40°	2575.3	2580.6	2604.1	2627.6	2654.7	2672.9	2691.8	2694.1	2687.6	2660.0	2606.4
42.5°	2798.8	2803.5	2827.1	2864.1	2899.4	2924.7	2942.4	2945.9	2925.3	2900.0	2833.5
45°	2991.2	3003.6	3034.2	3077.7	3128.9	3164.8	3188.9	3198.9	3180.7	3147.7	3070.7
47.5°	3143.6	3156.0	3199.5	3251.3	3314.8	3373.1	3413.1	3434.3	3429.6	3404.8	3320.7
50°	3255.4	3267.2	3314.2	3377.8	3451.9	3524.3	3592.5	3643.1	3660.8	3649.6	3572.5
52.5°	3268.3	3287.8	3343.1	3428.4	3524.9	3623.7	3720.8	3806.7	3864.9	3873.8	3816.7
55°	3087.7	3107.1	3183.6	3310.1	3453.7	3614.9	3770.2	3915.0	4029.7	4088.5	4058.5
57.5°	2661.7	2696.5	2777.1	2925.3	3136.6	3377.8	3625.5	3882.6	4116.2	4272.1	4302.1
60°	2039.8	2081.0	2162.2	2319.9	2555.3	2843.0	3173.6	3553.7	3966.1	4316.8	4526.3
62.5°	1308.5	1347.3	1432.7	1569.7	1761.6	2073.4	2428.2	2879.4	3433.7	3987.3	4486.3
65°	672.5	693.7	738.4	821.4	970.8	1203.8	1522.1	1972.2	2605.9	3288.9	4010.3
67.5°	426.0	430.1	440.1	451.9	490.1	570.7	719.0	999.6	1520.9	2233.4	3077.7
70°	368.3	368.3	363.6	361.8	366.5	377.7	400.7	466.0	641.9	1060.2	1775.1
72.5°	337.1	333.6	325.4	318.9	317.7	317.7	322.4	332.4	360.7	431.9	694.9
75°	310.7	300.7	289.5	281.8	278.9	275.9	275.4	277.1	283.0	294.2	331.8
77.5°	278.3	265.4	252.4	244.8	241.2	237.1	233.6	229.5	226.5	230.0	246.5
80°	239.5	224.8	214.8	210.0	206.5	200.6	193.0	185.9	179.5	178.3	188.3
82.5°	193.0	175.9	176.5	178.3	171.8	163.6	155.3	147.7	136.5	130.6	136.5
85°	155.9	147.1	143.0	154.2	144.7	132.4	119.4	105.9	88.3	74.1	80.6
87.5°	60.6	60.6	90.6	139.4	125.3	102.4	87.7	74.7	46.5	35.9	36.5
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°	1380.9	1380.9	1380.9	1380.9	1380.9	1380.9	1380.9	1380.9
2.5°	1383.2	1384.4	1383.8	1383.2	1383.2	1382.6	1383.2	1383.2
5°	1393.8	1396.8	1396.8	1397.9	1397.9	1398.5	1399.1	1398.5
7.5°	1409.7	1415.0	1418.5	1422.7	1423.2	1423.8	1425.0	1423.8
10°	1425.6	1436.2	1443.8	1451.5	1455.0	1456.2	1457.4	1457.4
12.5°	1445.6	1460.3	1473.8	1487.4	1493.8	1497.4	1497.4	1499.7
15°	1478.6	1493.3	1509.1	1527.4	1538.6	1544.4	1546.2	1546.2
17.5°	1525.0	1538.0	1551.5	1569.2	1583.3	1590.9	1592.7	1592.1
20°	1579.2	1591.5	1599.2	1610.3	1622.7	1631.5	1633.9	1633.9
22.5°	1640.9	1648.0	1649.2	1652.7	1662.7	1674.5	1679.8	1680.9
25°	1709.2	1711.0	1706.2	1706.2	1712.7	1723.9	1729.2	1729.8
27.5°	1797.4	1788.6	1776.9	1772.7	1776.9	1789.8	1796.3	1798.6
30°	1907.5	1886.3	1859.2	1844.5	1842.2	1859.2	1871.0	1872.8
32.5°	2033.4	2002.8	1966.9	1936.9	1929.2	1939.8	1953.9	1953.4
35°	2182.8	2146.3	2102.8	2064.6	2046.9	2057.5	2077.5	2079.9
37.5°	2355.2	2307.6	2257.5	2209.3	2181.6	2184.6	2205.8	2212.8
40°	2547.6	2485.8	2422.9	2358.2	2318.7	2311.1	2337.0	2341.1
42.5°	2753.5	2674.1	2594.7	2514.7	2464.1	2452.3	2482.3	2480.5
45°	2973.0	2871.8	2778.8	2690.6	2630.6	2612.9	2637.6	2637.6
47.5°	3208.9	3084.2	2973.6	2873.6	2808.2	2782.9	2806.5	2808.2
50°	3459.0	3326.6	3196.6	3085.4	3007.1	2974.8	3005.4	3010.1
52.5°	3707.9	3579.0	3447.8	3320.7	3226.0	3186.6	3221.9	3237.2
55°	3960.3	3833.8	3708.4	3584.3	3471.9	3425.4	3463.1	3482.5
57.5°	4226.8	4109.7	3990.3	3864.9	3756.7	3684.3	3724.3	3750.2
60°	4539.2	4439.2	4315.0	4176.8	4067.3	3993.8	4016.7	4039.7
62.5°	4786.3	4825.2	4719.8	4559.8	4419.2	4325.0	4347.4	4371.5
65°	4666.9	5065.2	5158.8	4997.0	4802.2	4655.7	4646.3	4658.6
67.5°	3900.8	4674.5	5238.8	5392.9	5229.9	5026.4	4988.7	5007.0
70°	2609.4	3573.1	4568.6	5310.0	5507.1	5428.2	5391.2	5402.3
72.5°	1253.2	2081.0	3099.5	4085.0	4685.1	4960.5	5048.7	5091.7
75°	458.3	826.1	1493.8	2251.1	2717.6	3146.0	3425.4	3539.6
77.5°	276.5	333.6	477.2	718.4	813.7	910.8	873.1	892.0
80°	204.7	231.2	261.8	294.2	304.8	304.8	293.0	283.6
82.5°	143.6	160.6	175.3	193.0	197.7	188.9	155.3	123.6
85°	92.4	100.0	106.5	117.7	114.7	109.4	73.5	65.3
87.5°	42.4	48.2	50.6	55.9	53.5	51.2	36.5	30.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)