

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: P193414

Luminaire Tested: **GLEON-AF-06-LED-E1-5WQ-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193414  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-06-LED-E1-5WQ-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20161 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - U0 - G3

Input Watts (W): 193  
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

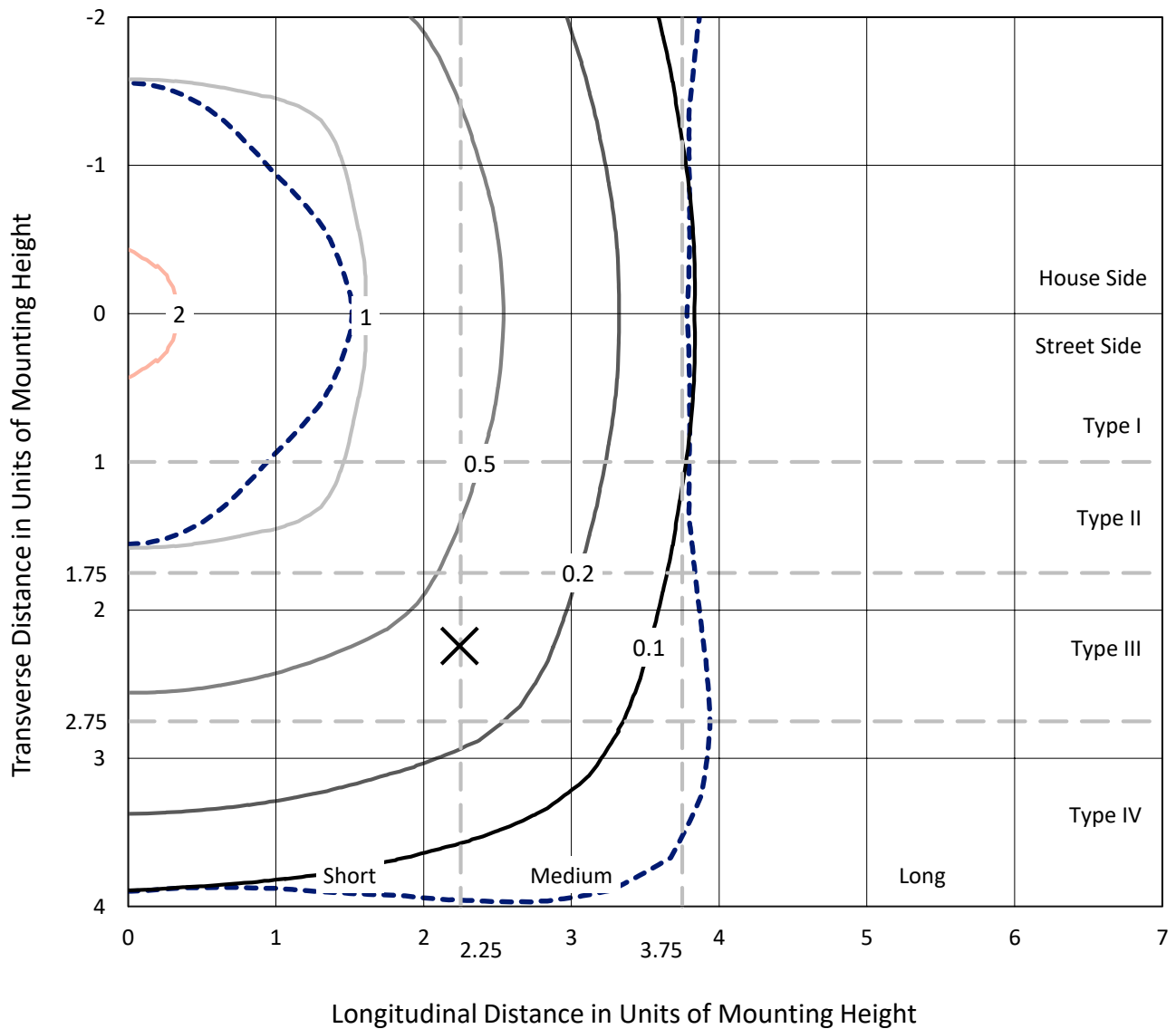


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

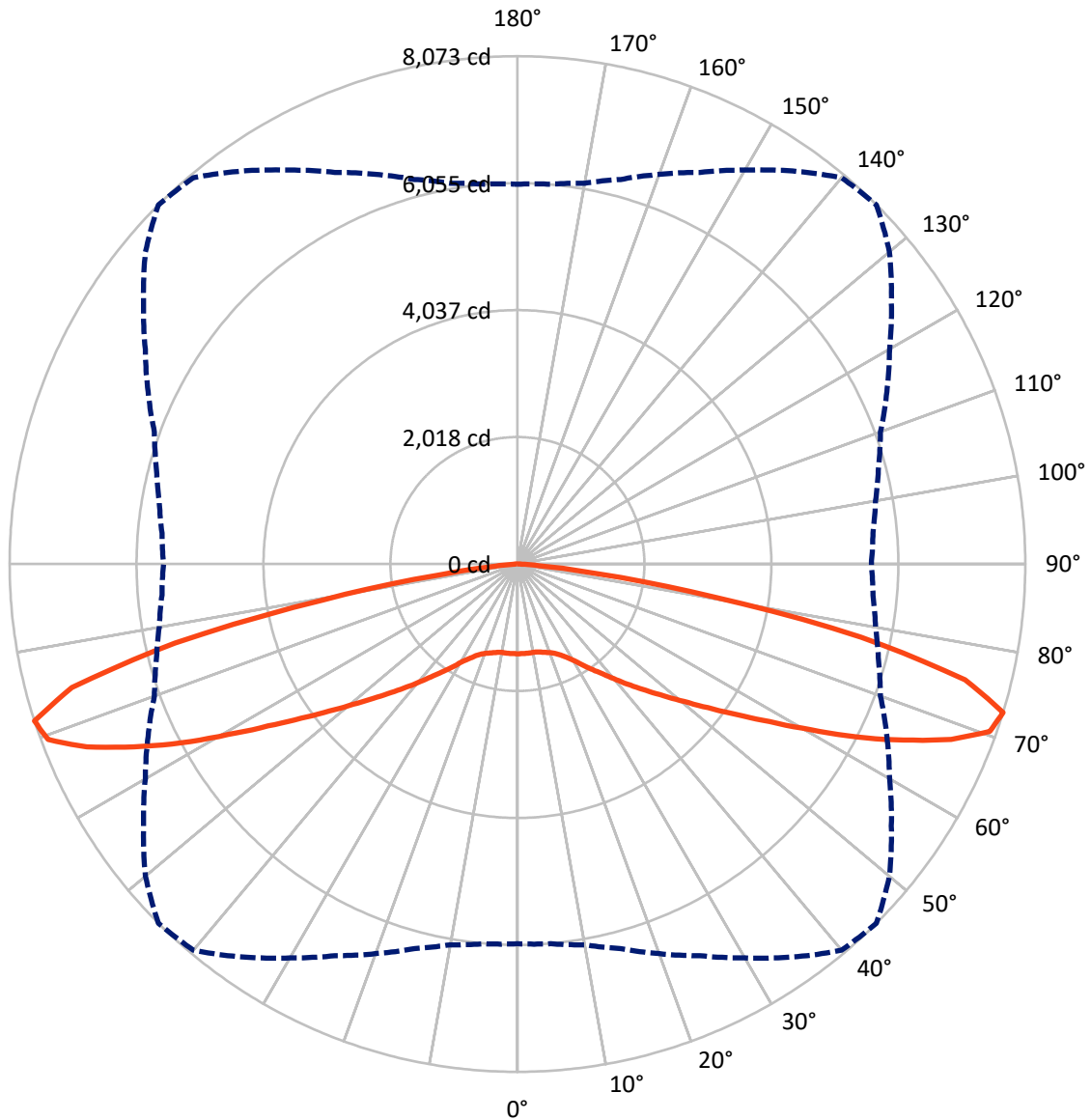


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10080.5	0.0	10080.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10080.5	0.0	10080.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20161.0	0.0	20161.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.3	0.7
10°-20°	414.1	2.1
20°-30°	756.6	3.8
30°-40°	1304.6	6.5
40°-50°	2230.2	11.1
50°-60°	3614.8	17.9
60°-70°	5996.8	29.7
70°-80°	5281.8	26.2
80°-90°	425.9	2.1
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°	20161.0	100.0
0°-180°	20161.0	100.0



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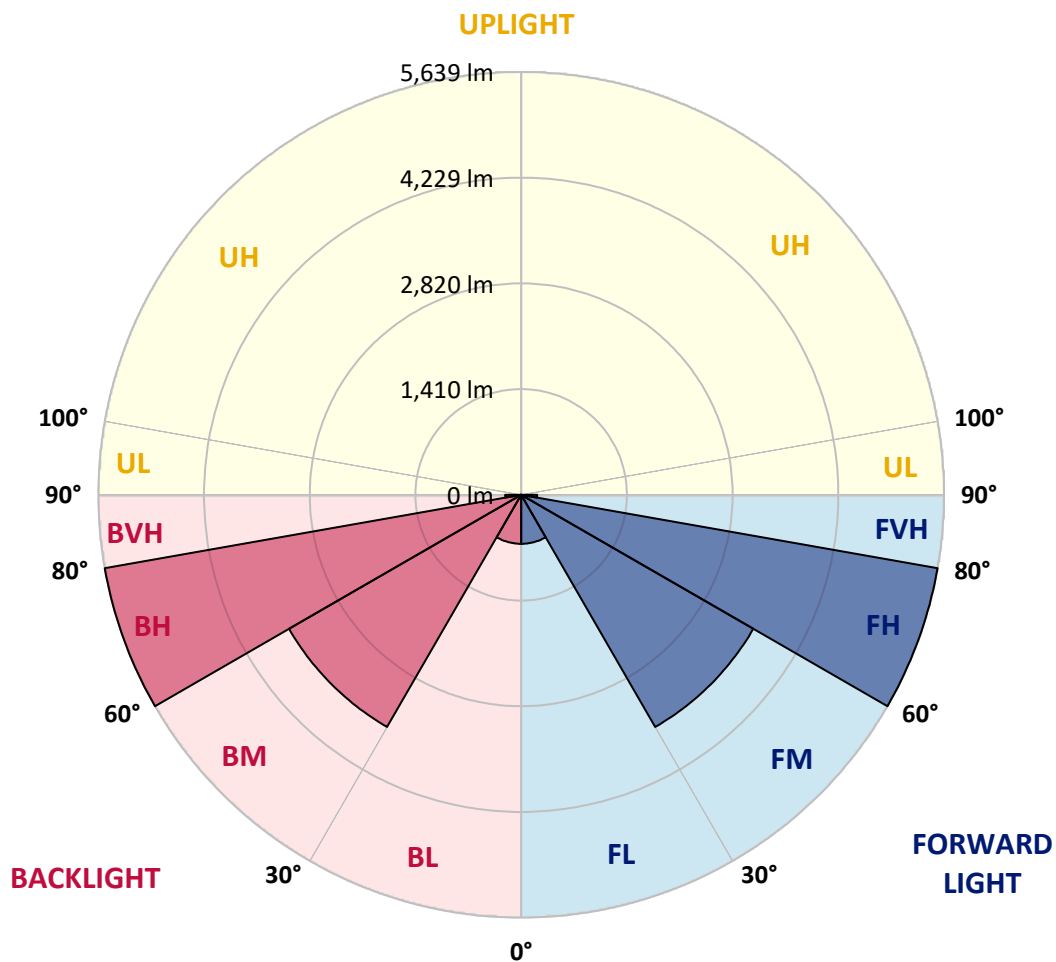
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	653.5	3.2			
FM	(30°-60°)	3574.8	17.7			
FH	(60°-80°)	5639.3	28.0			G3/7500
FVH	(80°-90°)	212.9	1.1			G2/225
BL	(0°-30°)	653.5	3.2	B2/1000		
BM	(30°-60°)	3574.8	17.7	B3/5000		
BH	(60°-80°)	5639.3	28.0	B5		G3/7500
BVH	(80°-90°)	212.9	1.1			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1427.7	1427.7	1427.7	1427.7	1427.7	1427.7	1427.7	1427.7	1427.7	1427.7	1427.7
2.5°	1427.7	1428.6	1429.6	1428.6	1428.6	1427.7	1426.8	1427.7	1426.8	1424.9	1425.9
5°	1432.3	1434.2	1434.2	1432.3	1433.3	1432.3	1430.5	1431.4	1429.6	1426.8	1426.8
7.5°	1437.9	1438.8	1438.8	1437.0	1437.9	1436.0	1434.2	1433.3	1431.4	1427.7	1424.9
10°	1446.2	1447.1	1446.2	1444.4	1444.4	1441.6	1437.0	1435.1	1431.4	1425.9	1423.1
12.5°	1455.5	1456.4	1455.5	1453.6	1452.7	1448.1	1444.4	1441.6	1438.8	1434.2	1429.6
15°	1468.4	1470.2	1468.4	1464.7	1461.9	1458.2	1456.4	1457.3	1458.2	1454.5	1449.9
17.5°	1492.4	1493.4	1490.6	1482.3	1478.6	1474.9	1474.9	1476.7	1479.5	1477.6	1473.0
20°	1536.8	1534.1	1527.6	1517.4	1512.8	1506.3	1505.4	1506.3	1506.3	1505.4	1501.7
22.5°	1592.3	1590.5	1582.1	1569.2	1562.7	1559.0	1553.5	1548.8	1547.9	1545.1	1541.4
25°	1658.9	1658.0	1647.8	1636.7	1632.1	1627.4	1622.8	1616.3	1610.8	1604.3	1600.6
27.5°	1744.0	1740.3	1725.5	1719.9	1713.4	1710.7	1704.2	1696.8	1692.2	1683.8	1679.2
30°	1837.3	1837.3	1825.3	1823.5	1823.5	1817.0	1809.6	1796.7	1788.3	1780.0	1777.2
32.5°	1930.7	1931.7	1919.6	1923.3	1926.1	1930.7	1932.6	1928.0	1922.4	1921.5	1915.9
35°	2065.7	2062.0	2050.0	2052.8	2051.9	2050.9	2050.9	2061.1	2063.0	2064.8	2053.7
37.5°	2233.1	2233.1	2221.1	2221.1	2215.5	2210.0	2202.6	2209.1	2219.2	2222.0	2214.6
40°	2424.5	2431.0	2416.2	2415.3	2417.1	2399.6	2391.2	2401.4	2407.9	2419.0	2410.7
42.5°	2650.1	2645.5	2630.7	2628.9	2618.7	2613.2	2605.8	2614.1	2624.3	2631.7	2634.4
45°	2866.5	2862.8	2846.2	2846.2	2836.0	2831.4	2835.1	2849.0	2853.6	2863.7	2873.9
47.5°	3080.1	3075.5	3064.4	3069.0	3070.0	3078.3	3090.3	3103.2	3116.2	3130.1	3134.7
50°	3298.3	3299.3	3287.3	3298.3	3312.2	3335.3	3367.7	3389.0	3415.8	3433.4	3438.9
52.5°	3497.2	3500.9	3513.8	3539.7	3567.4	3612.7	3668.2	3720.0	3764.4	3794.0	3792.1
55°	3735.7	3741.3	3772.7	3817.1	3862.4	3930.8	4013.1	4104.7	4178.6	4221.2	4194.4
57.5°	4040.9	4052.9	4088.0	4148.1	4215.6	4304.4	4417.2	4555.0	4669.7	4727.0	4683.5
60°	4459.8	4467.1	4509.7	4576.3	4657.6	4767.7	4918.4	5103.3	5265.2	5341.0	5291.0
62.5°	5011.8	5025.7	5059.9	5127.4	5210.6	5335.4	5519.4	5750.6	5952.2	6057.6	5944.8
65°	5671.1	5715.5	5744.1	5812.6	5890.2	6022.5	6214.8	6462.6	6679.0	6748.3	6618.0
67.5°	6323.9	6362.8	6412.7	6491.3	6569.9	6718.8	6897.2	7137.6	7375.3	7438.2	7235.7
70°	6609.6	6631.8	6709.5	6816.8	6967.5	7143.2	7349.4	7619.4	7913.4	7965.2	7708.2
72.5°	6037.3	6059.5	6146.4	6328.5	6591.1	6870.4	7230.1	7626.8	8015.2	8073.4	7719.3
75°	4566.1	4530.0	4658.6	4899.9	5254.1	5643.3	6146.4	6715.1	7276.3	7349.4	6926.8
77.5°	2359.8	2355.2	2452.3	2751.9	3174.4	3617.4	4171.2	4813.9	5363.2	5585.1	5241.1
80°	664.8	672.2	718.5	867.4	1114.2	1434.2	1866.9	2468.9	2918.3	3147.6	2955.3
82.5°	260.8	281.1	298.7	326.4	358.8	405.9	541.9	806.3	1081.9	1292.7	1058.8
85°	93.4	99.9	141.5	167.4	170.1	179.4	204.4	238.6	287.6	343.1	282.0
87.5°	35.1	38.8	45.3	74.9	74.0	67.5	82.3	86.0	64.7	59.2	73.1
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°	1427.7	1427.7	1427.7	1427.7	1427.7	1427.7	1427.7	1427.7
2.5°	1424.0	1424.9	1424.9	1425.9	1426.8	1426.8	1428.6	1428.6
5°	1424.9	1424.9	1423.1	1424.0	1423.1	1423.1	1424.0	1424.0
7.5°	1423.1	1422.2	1420.3	1419.4	1417.5	1417.5	1417.5	1417.5
10°	1420.3	1419.4	1417.5	1416.6	1415.7	1415.7	1415.7	1415.7
12.5°	1427.7	1424.9	1423.1	1422.2	1422.2	1422.2	1422.2	1422.2
15°	1447.1	1440.7	1436.0	1436.0	1437.0	1438.8	1438.8	1440.7
17.5°	1471.2	1463.8	1459.2	1455.5	1457.3	1460.1	1461.9	1463.8
20°	1499.8	1496.1	1489.7	1486.0	1486.0	1489.7	1491.5	1492.4
22.5°	1539.6	1536.8	1534.1	1529.4	1529.4	1531.3	1535.0	1535.0
25°	1598.8	1596.9	1595.1	1591.4	1590.5	1590.5	1592.3	1594.2
27.5°	1672.8	1673.7	1671.8	1670.9	1668.1	1667.2	1670.0	1669.1
30°	1771.7	1776.3	1780.9	1777.2	1772.6	1769.8	1767.1	1763.4
32.5°	1905.8	1900.2	1896.5	1890.1	1881.7	1874.3	1868.8	1862.3
35°	2032.5	2023.2	2019.5	2025.1	2024.1	2019.5	2013.0	2007.5
37.5°	2187.8	2186.0	2187.8	2198.0	2196.1	2200.7	2187.8	2186.9
40°	2383.8	2385.7	2398.6	2410.7	2417.1	2423.6	2416.2	2408.8
42.5°	2611.3	2610.4	2615.0	2631.7	2642.7	2650.1	2634.4	2632.6
45°	2851.7	2845.3	2849.0	2862.8	2873.9	2882.2	2864.7	2864.7
47.5°	3116.2	3105.1	3093.1	3108.8	3115.3	3120.8	3106.9	3102.3
50°	3411.2	3388.0	3362.2	3368.6	3368.6	3366.8	3349.2	3348.3
52.5°	3749.6	3707.1	3659.9	3642.3	3632.2	3621.1	3590.5	3575.8
55°	4138.9	4075.1	4001.1	3955.8	3931.8	3901.2	3850.4	3836.5
57.5°	4593.8	4494.0	4366.4	4310.9	4257.2	4207.3	4150.9	4135.2
60°	5132.9	4985.9	4816.7	4714.0	4655.8	4607.7	4549.4	4546.7
62.5°	5734.0	5501.9	5310.5	5218.0	5175.5	5132.9	5077.4	5084.8
65°	6345.2	6102.9	5923.5	5848.6	5808.9	5773.7	5718.2	5726.6
67.5°	6948.1	6725.2	6528.3	6451.5	6407.1	6362.8	6312.8	6321.1
70°	7380.8	7104.3	6882.4	6712.3	6605.9	6485.7	6408.1	6388.6
72.5°	7256.9	6830.6	6478.3	6140.8	5942.9	5782.0	5672.9	5625.8
75°	6280.5	5697.9	5244.8	4830.5	4597.5	4408.0	4270.2	4184.2
77.5°	4664.1	4009.4	3474.0	2996.9	2619.6	2366.3	2187.8	2072.2
80°	2553.1	1941.8	1419.4	997.7	733.3	609.4	538.2	504.0
82.5°	795.2	513.2	378.2	326.4	303.3	290.4	269.1	234.9
85°	253.4	221.9	206.2	197.0	187.7	163.7	112.8	102.6
87.5°	98.0	100.8	99.9	94.3	96.2	69.4	55.5	49.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)