

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: P193431

Luminaire Tested: **GLEON-AF-03-LED-E1-5WQ-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193431  
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-03-LED-E1-5WQ-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15619 lumens  
Efficiency: N/A  
Efficacy: 94.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G2

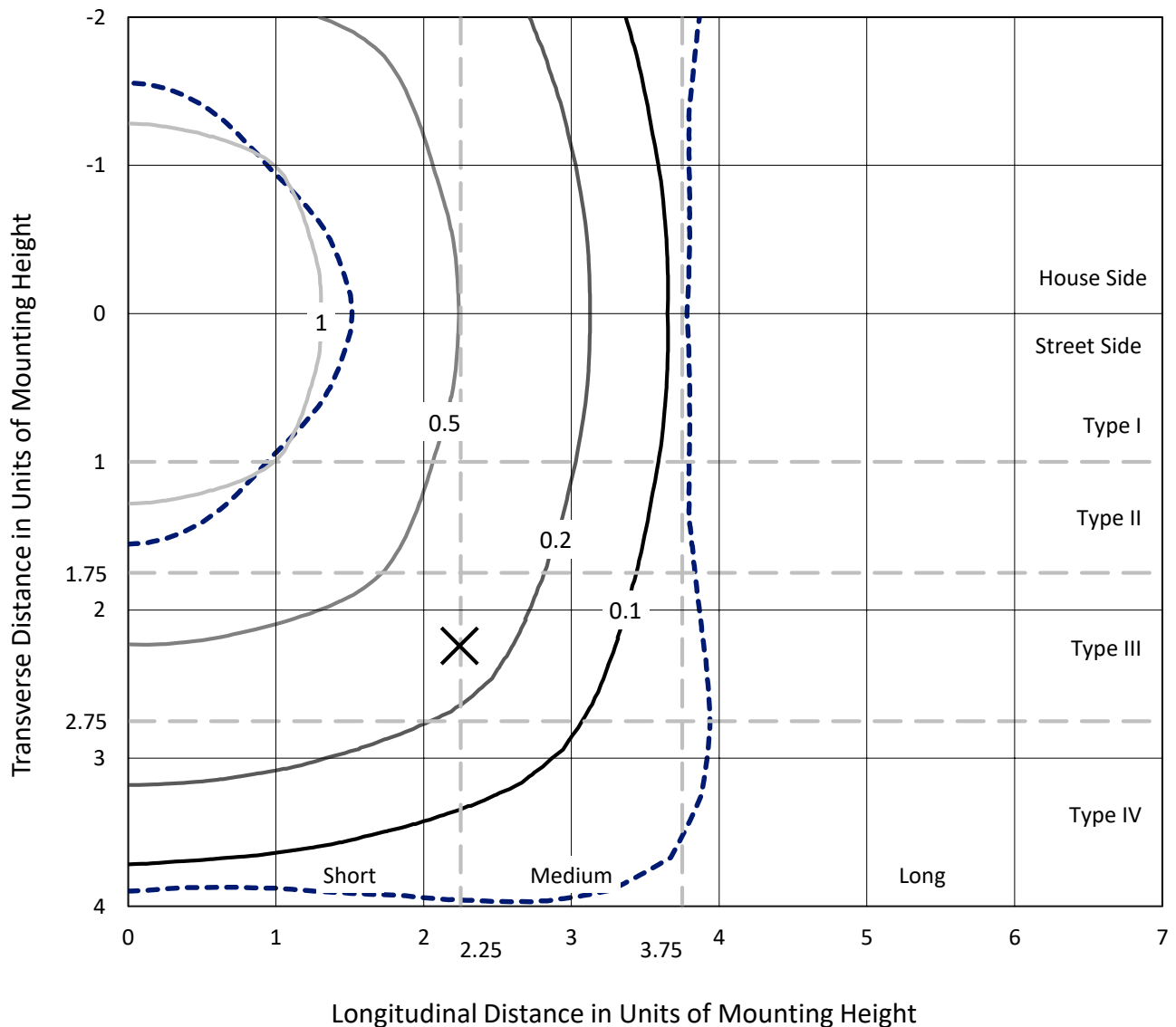
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

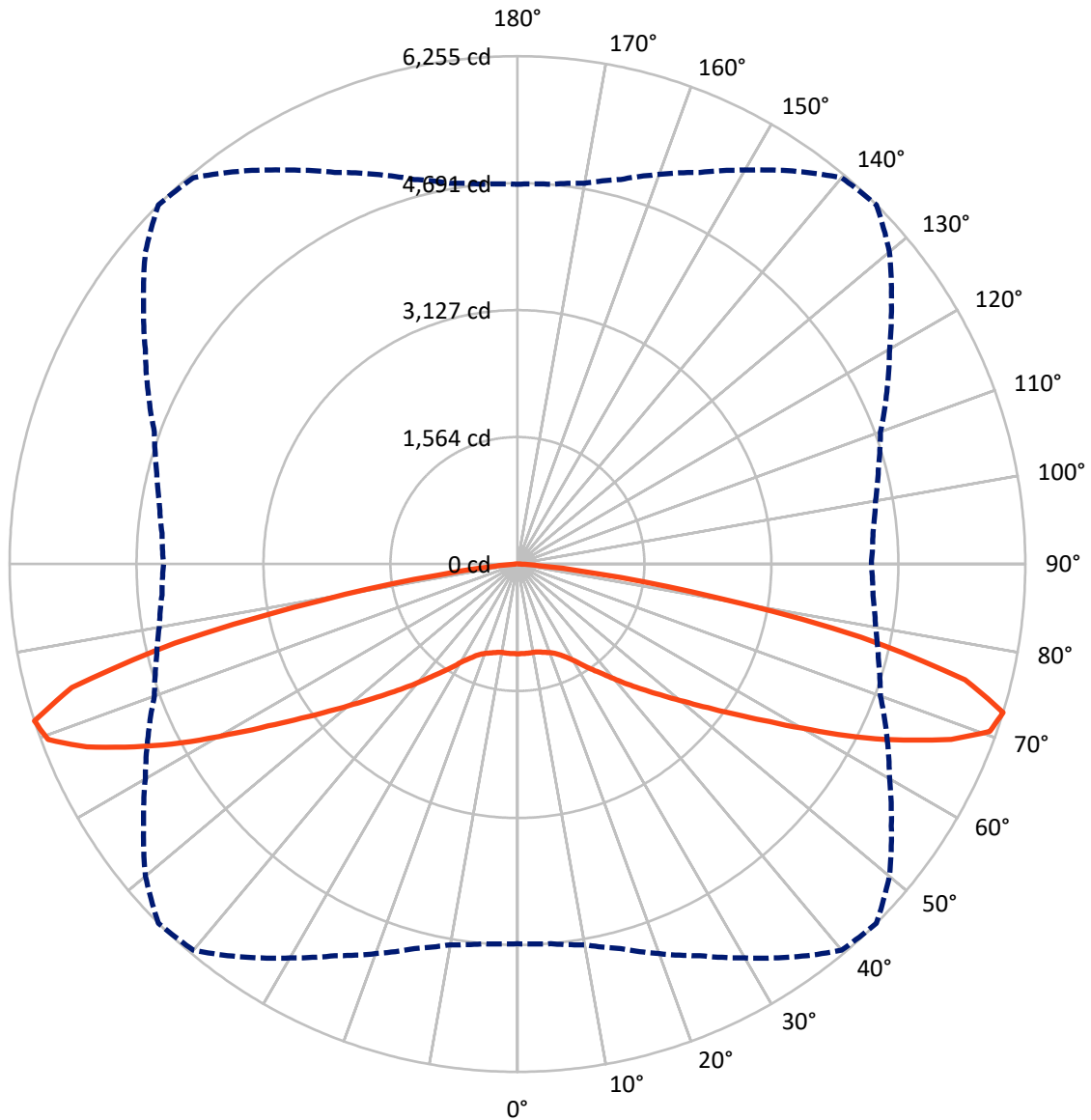
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	7809.5	0.0	7809.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7809.5	0.0	7809.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15619.0	0.0	15619.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.6	0.7
10°-20°	320.8	2.1
20°-30°	586.2	3.8
30°-40°	1010.7	6.5
40°-50°	1727.7	11.1
50°-60°	2800.4	17.9
60°-70°	4645.8	29.7
70°-80°	4091.9	26.2
80°-90°	329.9	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°	15619.0	100.0
0°-180°	15619.0	100.0



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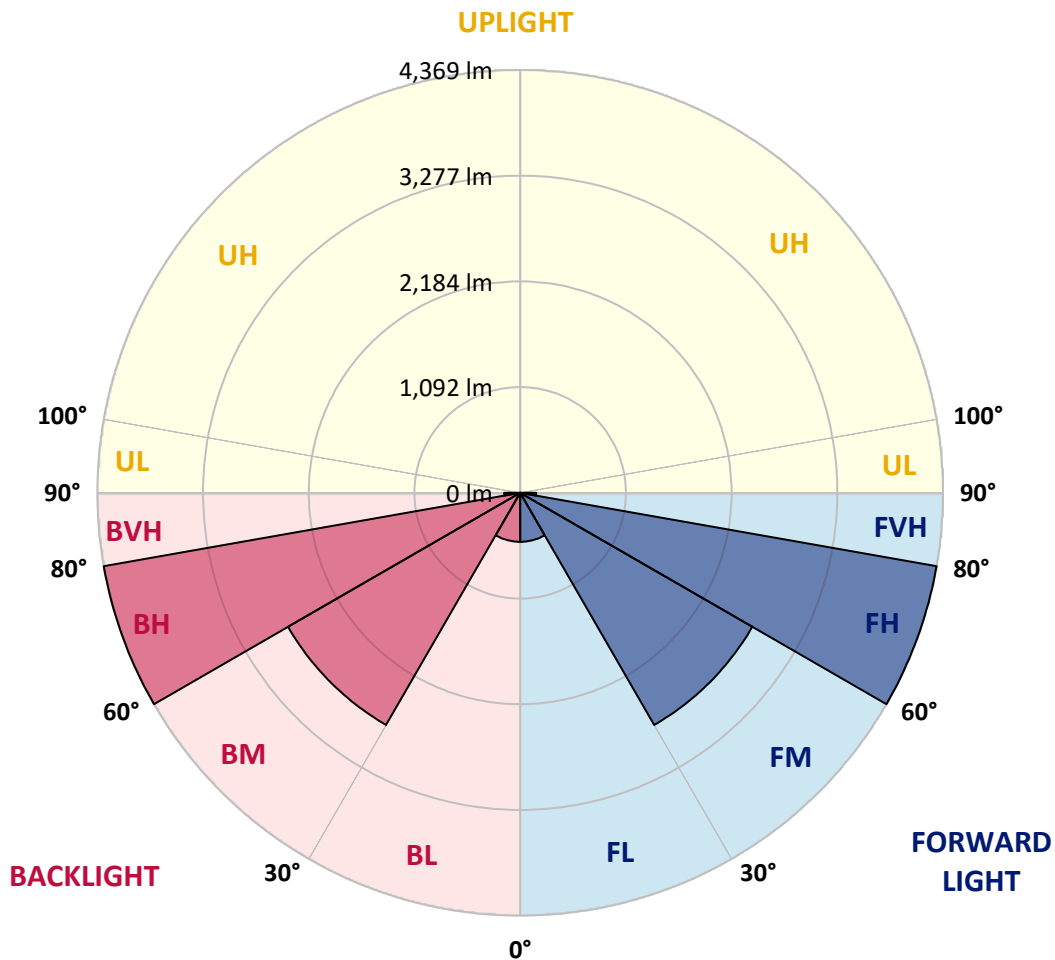
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	506.3	3.2			
FM	(30°-60°)	2769.4	17.7			
FH	(60°-80°)	4368.8	28.0			G2/5000
FVH	(80°-90°)	165.0	1.1			G2/225
BL	(0°-30°)	506.3	3.2	B2/1000		
BM	(30°-60°)	2769.4	17.7	B3/5000		
BH	(60°-80°)	4368.8	28.0	B4/5000		G2/5000
BVH	(80°-90°)	165.0	1.1			G2/225
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°	1106.1	1106.1	1106.1	1106.1	1106.1	1106.1	1106.1	1106.1	1106.1	1106.1	1106.1
2.5°	1106.1	1106.8	1107.5	1106.8	1106.8	1106.1	1105.4	1106.1	1105.4	1103.9	1104.6
5°	1109.6	1111.1	1111.1	1109.6	1110.4	1109.6	1108.2	1108.9	1107.5	1105.4	1105.4
7.5°	1113.9	1114.7	1114.7	1113.2	1113.9	1112.5	1111.1	1110.4	1108.9	1106.1	1103.9
10°	1120.4	1121.1	1120.4	1119.0	1119.0	1116.8	1113.2	1111.8	1108.9	1104.6	1102.5
12.5°	1127.6	1128.3	1127.6	1126.1	1125.4	1121.8	1119.0	1116.8	1114.7	1111.1	1107.5
15°	1137.6	1139.0	1137.6	1134.7	1132.6	1129.7	1128.3	1129.0	1129.7	1126.8	1123.3
17.5°	1156.2	1156.9	1154.8	1148.3	1145.5	1142.6	1142.6	1144.0	1146.2	1144.8	1141.2
20°	1190.6	1188.4	1183.4	1175.6	1172.0	1167.0	1166.2	1167.0	1167.0	1166.2	1163.4
22.5°	1233.6	1232.1	1225.7	1215.7	1210.7	1207.8	1203.5	1199.9	1199.2	1197.0	1194.2
25°	1285.2	1284.4	1276.6	1268.0	1264.4	1260.8	1257.2	1252.2	1247.9	1242.9	1240.0
27.5°	1351.1	1348.2	1336.7	1332.4	1327.4	1325.3	1320.3	1314.5	1310.9	1304.5	1300.9
30°	1423.4	1423.4	1414.1	1412.7	1412.7	1407.7	1401.9	1391.9	1385.5	1379.0	1376.9
32.5°	1495.8	1496.5	1487.2	1490.0	1492.2	1495.8	1497.2	1493.6	1489.3	1488.6	1484.3
35°	1600.4	1597.5	1588.2	1590.3	1589.6	1588.9	1588.9	1596.8	1598.2	1599.6	1591.0
37.5°	1730.0	1730.0	1720.7	1720.7	1716.4	1712.1	1706.4	1711.4	1719.3	1721.4	1715.7
40°	1878.3	1883.3	1871.9	1871.1	1872.6	1859.0	1852.5	1860.4	1865.4	1874.0	1867.6
42.5°	2053.1	2049.5	2038.1	2036.6	2028.7	2024.4	2018.7	2025.2	2033.0	2038.8	2040.9
45°	2220.7	2217.9	2205.0	2205.0	2197.1	2193.5	2196.4	2207.1	2210.7	2218.6	2226.5
47.5°	2386.2	2382.6	2374.0	2377.6	2378.3	2384.8	2394.1	2404.1	2414.2	2424.9	2428.5
50°	2555.3	2556.0	2546.7	2555.3	2566.0	2583.9	2609.0	2625.5	2646.3	2659.9	2664.2
52.5°	2709.3	2712.2	2722.2	2742.2	2763.7	2798.8	2841.8	2881.9	2916.3	2939.2	2937.8
55°	2894.1	2898.4	2922.8	2957.2	2992.3	3045.3	3109.0	3179.9	3237.3	3270.2	3249.4
57.5°	3130.5	3139.8	3167.1	3213.6	3265.9	3334.7	3422.1	3528.8	3617.6	3662.1	3628.4
60°	3455.0	3460.8	3493.7	3545.3	3608.3	3693.6	3810.3	3953.6	4079.0	4137.7	4099.0
62.5°	3882.7	3893.4	3920.0	3972.2	4036.7	4133.4	4276.0	4455.1	4611.2	4692.9	4605.5
65°	4393.5	4427.9	4450.1	4503.1	4563.2	4665.7	4814.7	5006.7	5174.3	5228.0	5127.0
67.5°	4899.2	4929.3	4968.0	5028.9	5089.8	5205.1	5343.4	5529.6	5713.7	5762.4	5605.6
70°	5120.6	5137.8	5197.9	5281.0	5397.8	5533.9	5693.7	5902.8	6130.7	6170.8	5971.6
72.5°	4677.1	4694.3	4761.7	4902.8	5106.3	5322.6	5601.3	5908.6	6209.5	6254.6	5980.2
75°	3537.4	3509.5	3609.0	3796.0	4070.4	4372.0	4761.7	5202.2	5637.1	5693.7	5366.3
77.5°	1828.2	1824.6	1899.8	2131.9	2459.3	2802.4	3231.5	3729.4	4154.9	4326.8	4060.4
80°	515.1	520.8	556.6	672.0	863.2	1111.1	1446.3	1912.7	2260.8	2438.5	2289.5
82.5°	202.0	217.8	231.4	252.9	277.9	314.5	419.8	624.7	838.1	1001.5	820.2
85°	72.4	77.4	109.6	129.7	131.8	139.0	158.3	184.8	222.8	265.8	218.5
87.5°	27.2	30.1	35.1	58.0	57.3	52.3	63.8	66.6	50.1	45.8	56.6
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°	1106.1	1106.1	1106.1	1106.1	1106.1	1106.1	1106.1	1106.1
2.5°	1103.2	1103.9	1103.9	1104.6	1105.4	1105.4	1106.8	1106.8
5°	1103.9	1103.9	1102.5	1103.2	1102.5	1102.5	1103.2	1103.2
7.5°	1102.5	1101.8	1100.3	1099.6	1098.2	1098.2	1098.2	1098.2
10°	1100.3	1099.6	1098.2	1097.5	1096.8	1096.8	1096.8	1096.8
12.5°	1106.1	1103.9	1102.5	1101.8	1101.8	1101.8	1101.8	1101.8
15°	1121.1	1116.1	1112.5	1112.5	1113.2	1114.7	1114.7	1116.1
17.5°	1139.7	1134.0	1130.4	1127.6	1129.0	1131.1	1132.6	1134.0
20°	1161.9	1159.1	1154.1	1151.2	1151.2	1154.1	1155.5	1156.2
22.5°	1192.7	1190.6	1188.4	1184.9	1184.9	1186.3	1189.2	1189.2
25°	1238.6	1237.2	1235.7	1232.9	1232.1	1232.1	1233.6	1235.0
27.5°	1295.9	1296.6	1295.2	1294.5	1292.3	1291.6	1293.8	1293.0
30°	1372.6	1376.1	1379.7	1376.9	1373.3	1371.1	1369.0	1366.1
32.5°	1476.4	1472.1	1469.3	1464.3	1457.8	1452.1	1447.8	1442.8
35°	1574.6	1567.4	1564.5	1568.8	1568.1	1564.5	1559.5	1555.2
37.5°	1694.9	1693.5	1694.9	1702.8	1701.4	1704.9	1694.9	1694.2
40°	1846.8	1848.2	1858.3	1867.6	1872.6	1877.6	1871.9	1866.1
42.5°	2023.0	2022.3	2025.9	2038.8	2047.4	2053.1	2040.9	2039.5
45°	2209.3	2204.3	2207.1	2217.9	2226.5	2232.9	2219.3	2219.3
47.5°	2414.2	2405.6	2396.2	2408.4	2413.4	2417.7	2407.0	2403.4
50°	2642.7	2624.8	2604.7	2609.7	2609.7	2608.3	2594.7	2594.0
52.5°	2904.9	2871.9	2835.4	2821.8	2813.9	2805.3	2781.6	2770.2
55°	3206.5	3157.0	3099.7	3064.6	3046.0	3022.3	2982.9	2972.2
57.5°	3558.9	3481.5	3382.7	3339.7	3298.1	3259.5	3215.8	3203.6
60°	3976.5	3862.6	3731.5	3652.0	3606.9	3569.6	3524.5	3522.4
62.5°	4442.2	4262.4	4114.1	4042.4	4009.5	3976.5	3933.6	3939.3
65°	4915.7	4728.0	4589.0	4531.0	4500.2	4473.0	4430.0	4436.4
67.5°	5382.8	5210.1	5057.5	4998.1	4963.7	4929.3	4890.6	4897.1
70°	5718.0	5503.8	5331.9	5200.1	5117.7	5024.6	4964.4	4949.4
72.5°	5622.0	5291.8	5018.9	4757.4	4604.1	4479.4	4394.9	4358.4
75°	4865.6	4414.2	4063.2	3742.3	3561.8	3414.9	3308.2	3241.6
77.5°	3613.3	3106.2	2691.4	2321.7	2029.5	1833.2	1694.9	1605.4
80°	1977.9	1504.4	1099.6	773.0	568.1	472.1	416.9	390.4
82.5°	616.1	397.6	293.0	252.9	235.0	224.9	208.5	182.0
85°	196.3	171.9	159.7	152.6	145.4	126.8	87.4	79.5
87.5°	75.9	78.1	77.4	73.1	74.5	53.7	43.0	38.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)