

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: P269047

Luminaire Tested: **GLEON-AF-02-LED-E1-5NQ-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269047  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
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-E1-5NQ-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8818.6 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

Input Watts (W): 85  
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

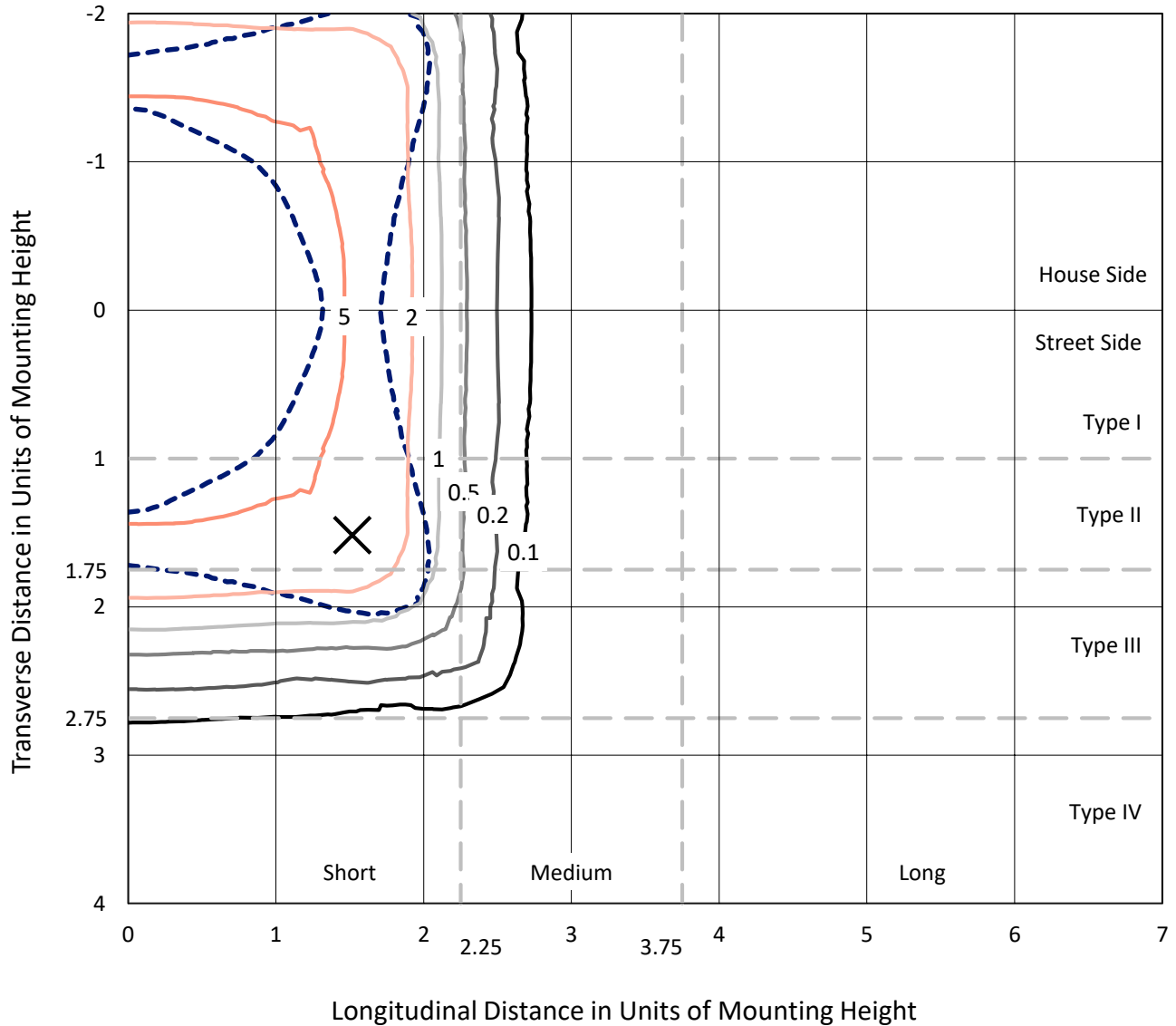


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

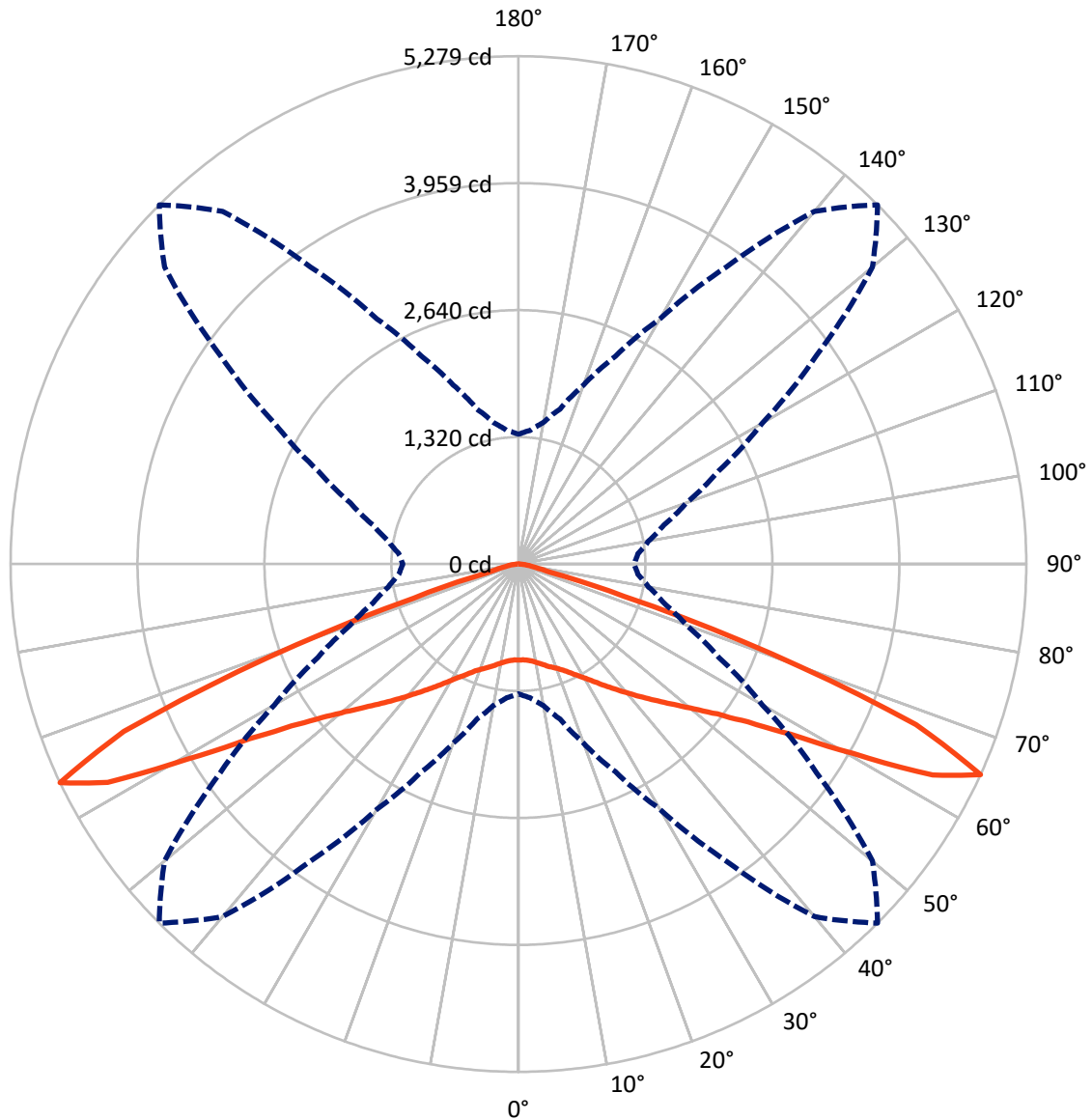


Based on 10 foot mounting height. Maximum calculated value = 10 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4409.3	0.0	4409.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4409.3	0.0	4409.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8818.6	0.0	8818.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.3	1.1
10°-20°	311.9	3.5
20°-30°	583.2	6.6
30°-40°	986.4	11.2
40°-50°	1612.9	18.3
50°-60°	2564.7	29.1
60°-70°	2318.3	26.3
70°-80°	293.4	3.3
80°-90°	50.5	0.6
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°	8818.6	100.0
0°-180°	8818.6	100.0



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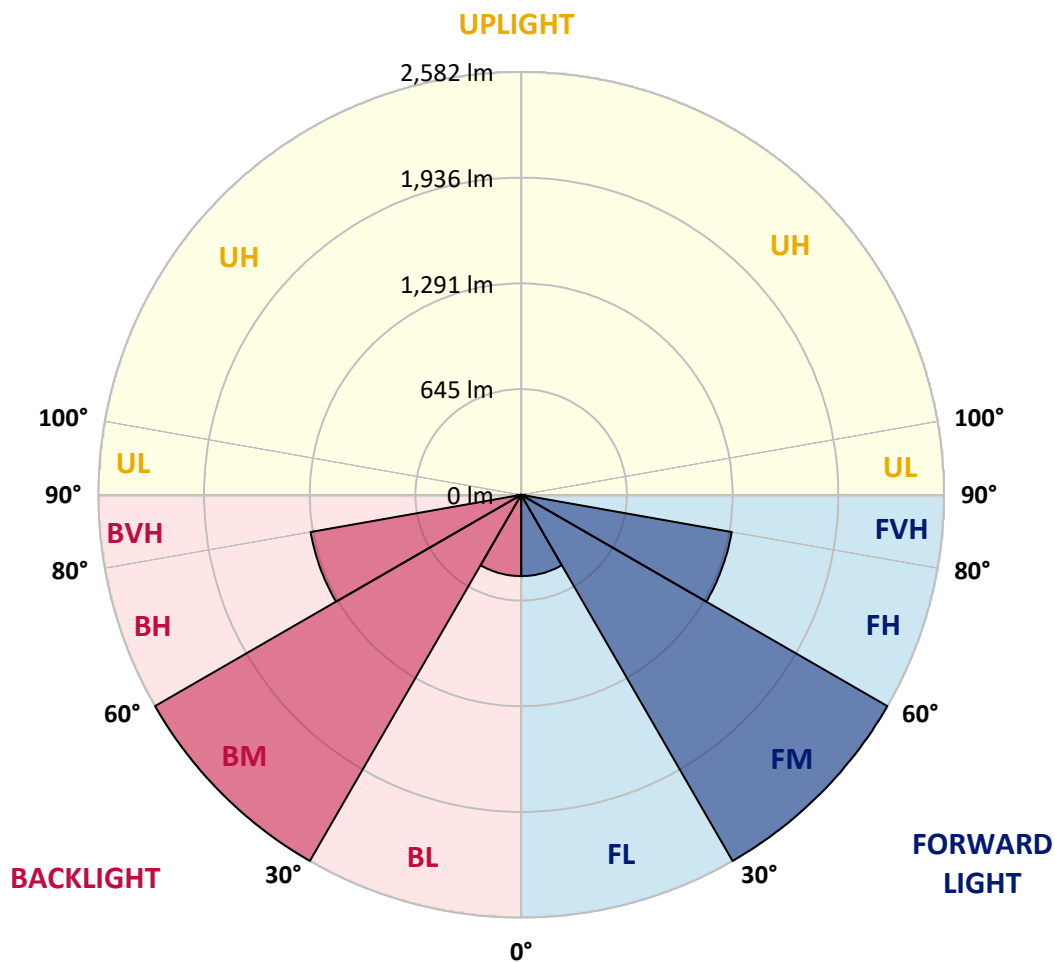
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	496.2	5.6			
FM	(30°-60°)	2582.0	29.3			
FH	(60°-80°)	1305.9	14.8			G1/1800
FVH	(80°-90°)	25.2	0.3			G1/100
BL	(0°-30°)	496.2	5.6	B1/500		
BM	(30°-60°)	2582.0	29.3	B3/5000		
BH	(60°-80°)	1305.9	14.8	B3/2500		G1/1800
BVH	(80°-90°)	25.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8
2.5°	998.6	999.5	1000.4	999.5	1000.4	999.0	998.2	999.5	998.2	996.9	997.8
5°	1007.3	1007.8	1007.8	1006.6	1007.8	1006.9	1005.7	1007.3	1006.1	1004.8	1005.7
7.5°	1021.8	1023.3	1022.2	1021.0	1021.8	1021.0	1020.1	1020.6	1020.1	1018.9	1019.2
10°	1041.1	1042.5	1041.7	1041.1	1042.0	1041.7	1040.7	1040.3	1040.7	1039.6	1039.6
12.5°	1064.8	1064.3	1064.0	1064.3	1065.6	1065.6	1065.1	1065.6	1066.4	1066.7	1066.0
15°	1087.8	1088.7	1088.7	1088.7	1091.3	1093.2	1094.5	1095.4	1097.0	1097.4	1095.8
17.5°	1116.8	1116.8	1116.4	1116.8	1119.3	1122.5	1123.8	1125.4	1127.2	1128.4	1126.3
20°	1149.0	1149.8	1149.8	1150.6	1154.0	1157.6	1157.6	1158.5	1157.6	1158.5	1157.2
22.5°	1188.2	1190.8	1190.8	1191.2	1194.4	1199.0	1197.7	1199.0	1196.9	1198.6	1196.9
25°	1239.4	1243.2	1242.4	1242.4	1244.8	1247.7	1248.1	1250.6	1250.3	1252.2	1251.0
27.5°	1297.2	1303.0	1304.7	1304.2	1306.0	1308.8	1309.6	1312.6	1310.8	1312.6	1311.7
30°	1366.6	1369.1	1372.4	1373.7	1375.8	1378.5	1378.5	1379.1	1377.0	1379.4	1380.7
32.5°	1438.5	1443.0	1446.4	1453.7	1457.5	1459.6	1459.1	1459.9	1457.9	1461.3	1463.7
35°	1533.4	1536.8	1542.2	1548.0	1552.9	1552.5	1551.3	1551.7	1551.7	1554.5	1557.0
37.5°	1647.9	1648.7	1655.8	1664.0	1666.4	1664.0	1656.6	1654.9	1651.3	1654.9	1659.1
40°	1768.9	1771.7	1785.8	1791.2	1792.5	1787.9	1777.1	1771.0	1762.7	1767.2	1773.1
42.5°	1895.8	1901.5	1914.3	1923.8	1927.9	1925.1	1910.2	1900.6	1889.9	1892.4	1898.2
45°	2036.2	2043.1	2061.3	2070.5	2078.3	2073.6	2059.3	2044.8	2027.8	2029.1	2038.3
47.5°	2193.1	2200.0	2223.7	2238.9	2243.1	2242.2	2226.1	2206.2	2183.2	2182.3	2190.2
50°	2369.0	2376.0	2405.4	2428.8	2440.9	2439.6	2420.7	2392.5	2364.5	2364.9	2374.8
52.5°	2540.9	2549.5	2580.0	2620.5	2644.2	2661.0	2649.5	2623.1	2588.7	2589.5	2598.6
55°	2701.9	2716.4	2751.5	2806.3	2850.2	2897.7	2911.2	2910.5	2889.8	2895.5	2904.7
57.5°	2780.0	2801.5	2855.5	2942.3	3031.5	3128.2	3210.0	3271.1	3297.0	3336.2	3327.2
60°	2632.2	2666.3	2746.1	2873.7	3050.0	3251.7	3467.6	3678.6	3858.8	3994.7	3916.6
62.5°	2155.0	2199.7	2296.3	2459.9	2726.6	3049.2	3462.6	3961.5	4505.1	4833.1	4598.9
65°	1348.4	1394.7	1493.1	1668.2	1980.4	2381.3	2942.3	3769.1	4784.7	5279.1	4802.5
67.5°	525.8	550.9	604.2	716.2	950.8	1307.7	1870.5	2808.9	4023.6	4456.9	3948.8
70°	263.6	266.0	275.9	296.5	346.9	450.6	685.5	1302.3	2307.4	2787.0	2224.5
72.5°	190.4	190.8	195.8	204.9	221.0	244.1	288.6	398.6	750.4	1147.0	703.4
75°	145.7	147.4	150.3	155.2	164.0	175.4	191.7	229.6	284.6	329.9	277.5
77.5°	112.4	115.6	117.7	122.3	127.6	135.5	140.0	154.5	179.7	189.2	186.3
80°	85.5	88.5	93.0	96.7	100.4	104.1	102.4	109.1	122.3	130.2	125.9
82.5°	54.4	57.9	71.1	74.3	75.9	78.5	75.5	75.9	81.7	86.7	81.7
85°	35.2	37.2	45.0	49.1	49.5	51.3	49.9	47.2	47.2	42.9	48.2
87.5°	16.1	16.4	20.2	24.0	24.8	22.3	21.9	21.1	17.0	16.1	17.3
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°	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8
2.5°	997.4	998.2	998.6	1000.0	1000.4	1000.4	1000.7	1001.5
5°	1005.3	1006.6	1006.9	1008.5	1008.9	1008.5	1009.3	1009.9
7.5°	1019.2	1021.4	1022.2	1023.9	1022.6	1024.2	1024.6	1024.6
10°	1040.0	1042.0	1042.5	1044.1	1043.2	1044.1	1044.1	1043.2
12.5°	1067.2	1067.6	1066.4	1067.6	1066.0	1066.7	1065.6	1064.8
15°	1097.4	1096.1	1093.2	1093.2	1090.7	1091.3	1090.7	1090.4
17.5°	1126.7	1124.1	1122.2	1121.4	1119.3	1118.8	1117.6	1117.6
20°	1159.0	1157.6	1156.4	1154.9	1152.7	1150.6	1150.2	1151.1
22.5°	1197.7	1197.4	1197.4	1196.5	1193.6	1191.5	1190.3	1190.3
25°	1249.7	1246.0	1246.0	1245.6	1244.4	1243.2	1240.6	1241.9
27.5°	1308.4	1306.3	1308.0	1307.7	1306.3	1306.3	1304.7	1304.7
30°	1380.7	1379.8	1382.3	1380.2	1376.2	1375.8	1374.0	1372.0
32.5°	1464.1	1463.2	1467.0	1464.5	1457.9	1454.1	1450.9	1449.2
35°	1557.0	1557.4	1562.1	1560.4	1552.9	1550.5	1544.6	1543.8
37.5°	1658.6	1665.3	1673.2	1674.8	1668.5	1667.0	1660.6	1657.5
40°	1778.0	1786.6	1798.6	1801.6	1795.0	1793.6	1785.0	1780.5
42.5°	1905.2	1920.0	1934.9	1937.5	1930.7	1924.2	1915.9	1912.6
45°	2047.2	2065.1	2084.4	2089.4	2079.4	2071.6	2060.9	2060.9
47.5°	2206.6	2229.1	2251.0	2264.5	2255.5	2247.2	2234.4	2226.1
50°	2395.1	2425.7	2454.1	2468.2	2453.7	2438.0	2415.7	2408.3
52.5°	2631.2	2664.4	2689.0	2681.7	2659.3	2637.5	2613.1	2603.2
55°	2932.7	2943.9	2943.9	2915.9	2871.3	2834.5	2796.1	2783.3
57.5°	3309.9	3266.9	3200.8	3116.9	3011.7	2920.0	2858.0	2828.8
60°	3752.9	3546.5	3313.2	3083.9	2895.5	2740.3	2648.3	2606.2
62.5°	4048.3	3508.2	3040.6	2672.5	2401.7	2214.5	2087.3	2037.7
65°	3783.7	2925.8	2299.7	1859.4	1564.0	1373.7	1247.7	1201.5
67.5°	2771.4	1833.4	1224.6	877.6	643.0	512.9	461.3	439.9
70°	1244.1	645.5	395.7	308.9	266.3	244.5	234.9	231.8
72.5°	375.0	271.4	228.8	206.5	189.5	178.9	170.9	170.1
75°	226.4	188.4	167.3	154.1	143.3	134.7	130.6	129.3
77.5°	158.2	138.3	128.5	118.9	110.8	104.1	100.4	97.5
80°	111.1	101.6	97.0	91.6	86.2	80.0	74.7	72.3
82.5°	74.3	72.3	72.3	69.0	64.4	58.7	47.9	45.5
85°	47.9	47.5	48.2	47.2	43.7	37.5	31.0	29.4
87.5°	22.3	22.6	25.2	24.8	24.0	19.9	15.7	14.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)