

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: P192589

Luminaire Tested: **GLEON-AF-01-LED-E1-5NQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192589
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-01-LED-E1-5NQ-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6218 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 59
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



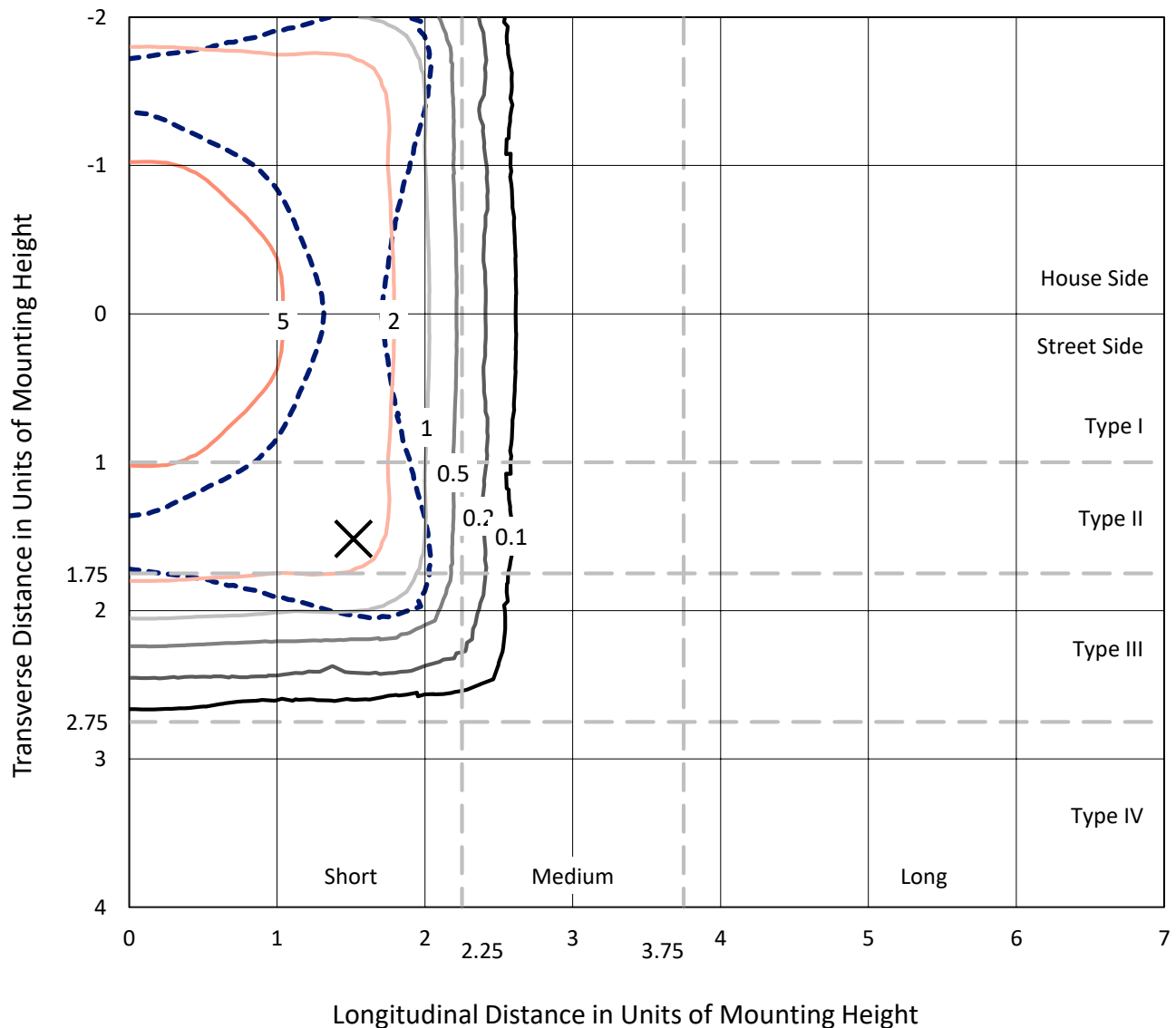
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd



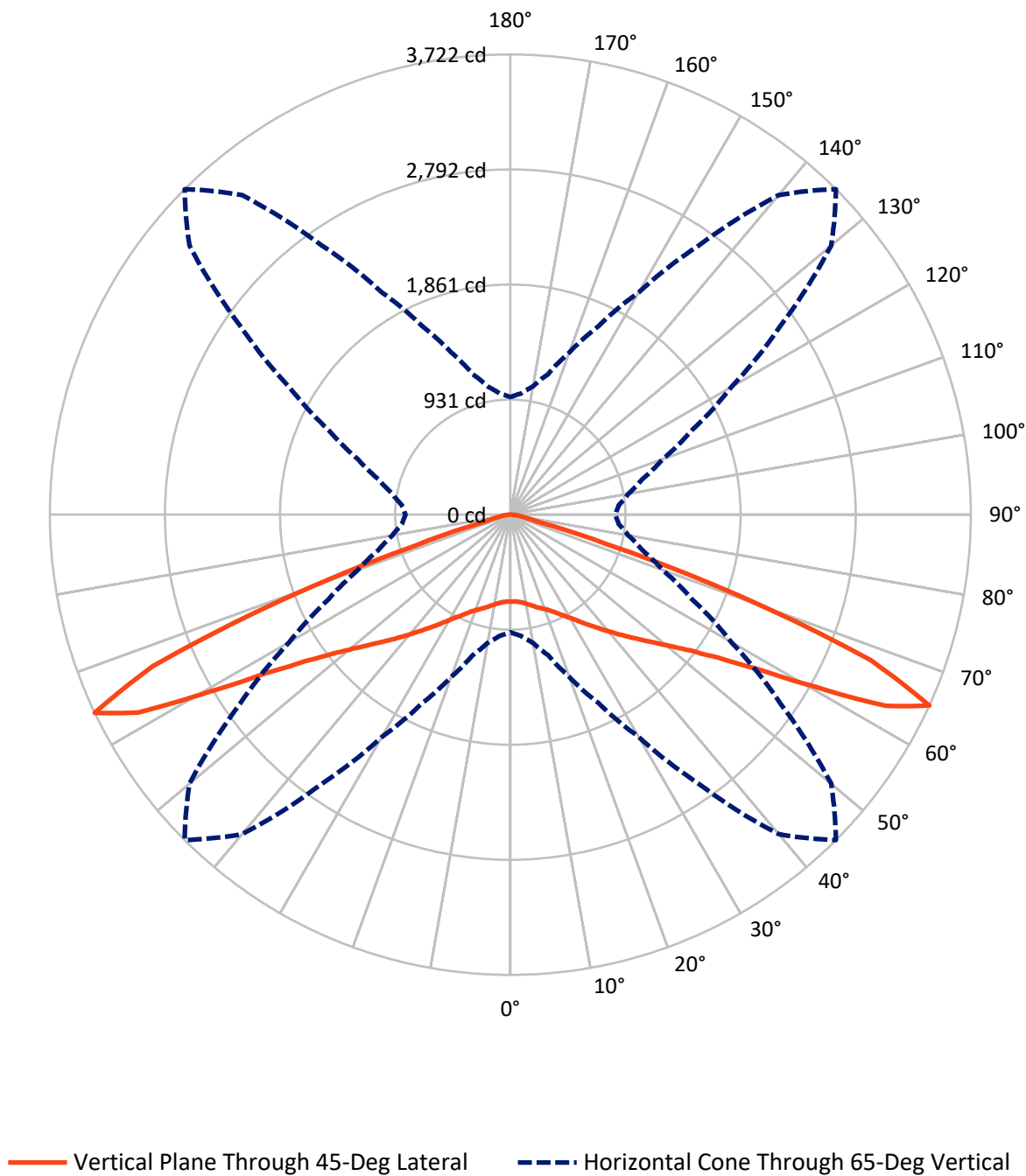
Based on 10 foot mounting height. Maximum calculated value = 7 fc

Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3109.0	0.0	3109.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3109.0	0.0	3109.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6218.0	0.0	6218.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	1.1
10°-20°	219.9	3.5
20°-30°	411.2	6.6
30°-40°	695.5	11.2
40°-50°	1137.2	18.3
50°-60°	1808.4	29.1
60°-70°	1634.6	26.3
70°-80°	206.9	3.3
80°-90°	35.6	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°	6218.0	100.0
0°-180°	6218.0	100.0

Coefficient of Utilization



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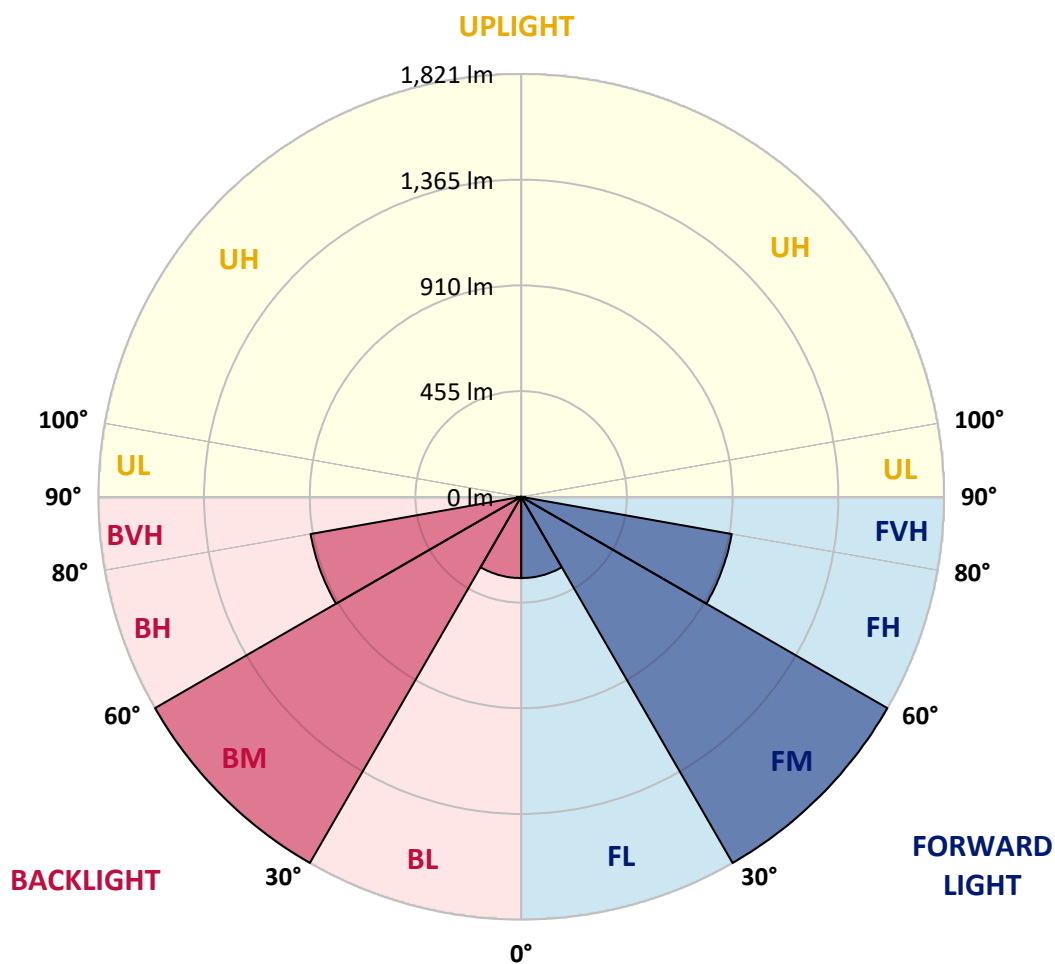
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	349.9	5.6			
FM	(30°-60°)	1820.6	29.3			
FH	(60°-80°)	920.8	14.8			G1/1800
FVH	(80°-90°)	17.8	0.3			G1/100
BL	(0°-30°)	349.9	5.6	B1/500		
BM	(30°-60°)	1820.6	29.3	B2/2500		
BH	(60°-80°)	920.8	14.8	B2/1000		G1/1800
BVH	(80°-90°)	17.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	703.5	703.5	703.5	703.5	703.5	703.5	703.5	703.5	703.5	703.5	703.5
2.5°	704.1	704.7	705.3	704.7	705.3	704.4	703.8	704.7	703.8	703.0	703.5
5°	710.3	710.5	710.5	709.6	710.5	709.9	709.1	710.3	709.4	708.5	709.1
7.5°	720.4	721.6	720.8	719.9	720.4	719.9	719.3	719.6	719.3	718.4	718.7
10°	734.1	735.0	734.4	734.1	734.8	734.4	733.9	733.5	733.9	733.0	733.0
12.5°	750.7	750.5	750.2	750.5	751.3	751.3	751.0	751.3	751.9	752.2	751.6
15°	767.0	767.6	767.6	767.6	769.4	770.9	771.7	772.3	773.4	773.8	772.6
17.5°	787.4	787.4	787.1	787.4	789.2	791.5	792.3	793.6	794.8	795.6	794.1
20°	810.1	810.7	810.7	811.4	813.7	816.2	816.2	816.8	816.2	816.8	815.9
22.5°	837.8	839.5	839.5	839.8	842.2	845.3	844.5	845.3	843.9	845.1	843.9
25°	874.0	876.6	875.9	875.9	877.7	879.7	880.1	881.8	881.5	883.0	882.0
27.5°	914.7	918.8	920.0	919.6	920.8	922.8	923.5	925.4	924.4	925.4	924.9
30°	963.6	965.5	967.7	968.6	970.0	972.1	972.1	972.3	970.9	972.6	973.5
32.5°	1014.3	1017.5	1019.8	1025.1	1027.7	1029.1	1028.9	1029.4	1028.0	1030.4	1032.1
35°	1081.2	1083.7	1087.3	1091.5	1095.0	1094.7	1093.8	1094.1	1094.1	1096.1	1097.8
37.5°	1162.0	1162.5	1167.4	1173.3	1175.1	1173.3	1168.1	1166.9	1164.2	1166.9	1169.8
40°	1247.3	1249.3	1259.2	1262.9	1263.8	1260.7	1253.1	1248.8	1243.0	1246.1	1250.2
42.5°	1336.7	1340.7	1349.8	1356.5	1359.4	1357.3	1346.8	1340.2	1332.5	1334.3	1338.4
45°	1435.6	1440.6	1453.4	1459.8	1465.3	1462.2	1451.9	1441.7	1429.8	1430.8	1437.1
47.5°	1546.3	1551.3	1567.9	1578.7	1581.5	1581.0	1569.6	1555.7	1539.4	1538.8	1544.3
50°	1670.3	1675.4	1696.0	1712.6	1721.1	1720.2	1706.7	1687.0	1667.2	1667.6	1674.5
52.5°	1791.6	1797.7	1819.1	1847.7	1864.3	1876.3	1868.2	1849.4	1825.2	1825.9	1832.3
55°	1905.1	1915.4	1940.0	1978.8	2009.6	2043.1	2052.8	2052.1	2037.5	2041.7	2048.1
57.5°	1960.1	1975.3	2013.4	2074.7	2137.4	2205.6	2263.3	2306.4	2324.7	2352.4	2346.1
60°	1855.9	1880.1	1936.3	2026.2	2150.5	2292.7	2445.0	2593.9	2720.8	2816.6	2761.5
62.5°	1519.6	1550.9	1619.1	1734.5	1922.5	2150.0	2441.5	2793.3	3176.5	3407.7	3242.6
65°	950.8	983.5	1052.7	1176.1	1396.4	1679.1	2074.7	2657.6	3373.7	3722.3	3386.2
67.5°	370.7	388.5	426.0	505.0	670.5	921.9	1318.9	1980.6	2836.9	3142.4	2784.3
70°	185.7	187.5	194.5	209.1	244.6	317.7	483.4	918.3	1627.0	1965.1	1568.4
72.5°	134.3	134.5	138.0	144.4	155.8	172.1	203.5	281.1	529.2	808.7	495.9
75°	102.8	104.1	106.0	109.5	115.6	123.8	135.2	161.9	200.6	232.7	195.7
77.5°	79.2	81.5	83.0	86.2	90.0	95.5	98.8	108.9	126.6	133.4	131.3
80°	60.3	62.3	65.5	68.2	70.8	73.4	72.2	76.9	86.2	91.8	88.8
82.5°	38.5	40.8	50.0	52.5	53.5	55.2	53.3	53.5	57.7	61.1	57.7
85°	24.8	26.2	31.8	34.6	35.0	36.0	35.3	33.3	33.3	30.3	34.1
87.5°	11.4	11.7	14.3	16.9	17.5	15.8	15.4	14.9	11.9	11.4	12.2
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°	703.5	703.5	703.5	703.5	703.5	703.5	703.5	703.5
2.5°	703.3	703.8	704.1	705.0	705.3	705.3	705.6	706.2
5°	708.8	709.6	709.9	711.2	711.4	711.2	711.8	712.1
7.5°	718.7	720.1	720.8	721.8	721.0	722.2	722.5	722.5
10°	733.2	734.8	735.0	736.2	735.7	736.2	736.2	735.7
12.5°	752.5	752.8	751.9	752.8	751.6	752.2	751.3	750.7
15°	773.8	772.9	770.9	770.9	769.0	769.4	769.0	768.7
17.5°	794.5	792.6	791.2	790.6	789.2	788.9	788.0	788.0
20°	817.1	816.2	815.4	814.2	812.8	811.4	811.0	811.6
22.5°	844.5	844.2	844.2	843.6	841.7	840.1	839.2	839.2
25°	881.1	878.6	878.6	878.3	877.5	876.6	874.8	875.7
27.5°	922.5	921.0	922.2	921.9	921.0	921.0	920.0	920.0
30°	973.5	973.0	974.7	973.2	970.3	970.0	968.8	967.4
32.5°	1032.4	1031.7	1034.3	1032.6	1028.0	1025.4	1023.0	1021.9
35°	1097.8	1098.2	1101.4	1100.2	1095.0	1093.2	1089.1	1088.5
37.5°	1169.5	1174.2	1179.7	1180.9	1176.5	1175.3	1170.9	1168.6
40°	1253.6	1259.8	1268.2	1270.2	1265.5	1264.6	1258.5	1255.4
42.5°	1343.4	1353.8	1364.3	1366.1	1361.4	1356.8	1350.9	1348.6
45°	1443.6	1456.1	1469.7	1473.3	1466.3	1460.7	1453.1	1453.1
47.5°	1556.0	1571.7	1587.1	1596.8	1590.3	1584.5	1575.4	1569.6
50°	1688.7	1710.2	1730.3	1740.3	1730.1	1718.9	1703.3	1698.0
52.5°	1855.3	1878.6	1896.0	1890.8	1875.1	1859.7	1842.4	1835.4
55°	2067.8	2075.7	2075.7	2055.9	2024.5	1998.6	1971.5	1962.6
57.5°	2333.8	2303.5	2256.9	2197.8	2123.5	2058.9	2015.2	1994.5
60°	2646.3	2500.6	2336.1	2174.5	2041.7	1932.1	1867.2	1837.5
62.5°	2854.4	2473.5	2143.8	1884.4	1693.4	1561.5	1471.7	1436.9
65°	2667.8	2063.0	1621.4	1311.0	1102.9	968.6	879.7	847.1
67.5°	1954.0	1292.6	863.4	618.9	453.4	361.6	325.3	310.2
70°	877.2	455.2	278.9	217.9	187.8	172.4	165.7	163.4
72.5°	264.4	191.3	161.3	145.7	133.7	126.0	120.5	119.9
75°	159.6	132.8	117.9	108.6	101.1	94.9	92.0	91.1
77.5°	111.6	97.6	90.5	83.9	78.0	73.4	70.8	68.8
80°	78.3	71.7	68.4	64.7	60.8	56.5	52.7	51.0
82.5°	52.5	51.0	51.0	48.6	45.5	41.3	33.8	32.0
85°	33.8	33.6	34.1	33.3	30.9	26.6	21.9	20.6
87.5°	15.8	16.1	17.8	17.5	16.9	13.9	11.0	10.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)