

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: P270193

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270193
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: GWC-AF-02-LED-E1-5NQ-7027
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11133 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

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

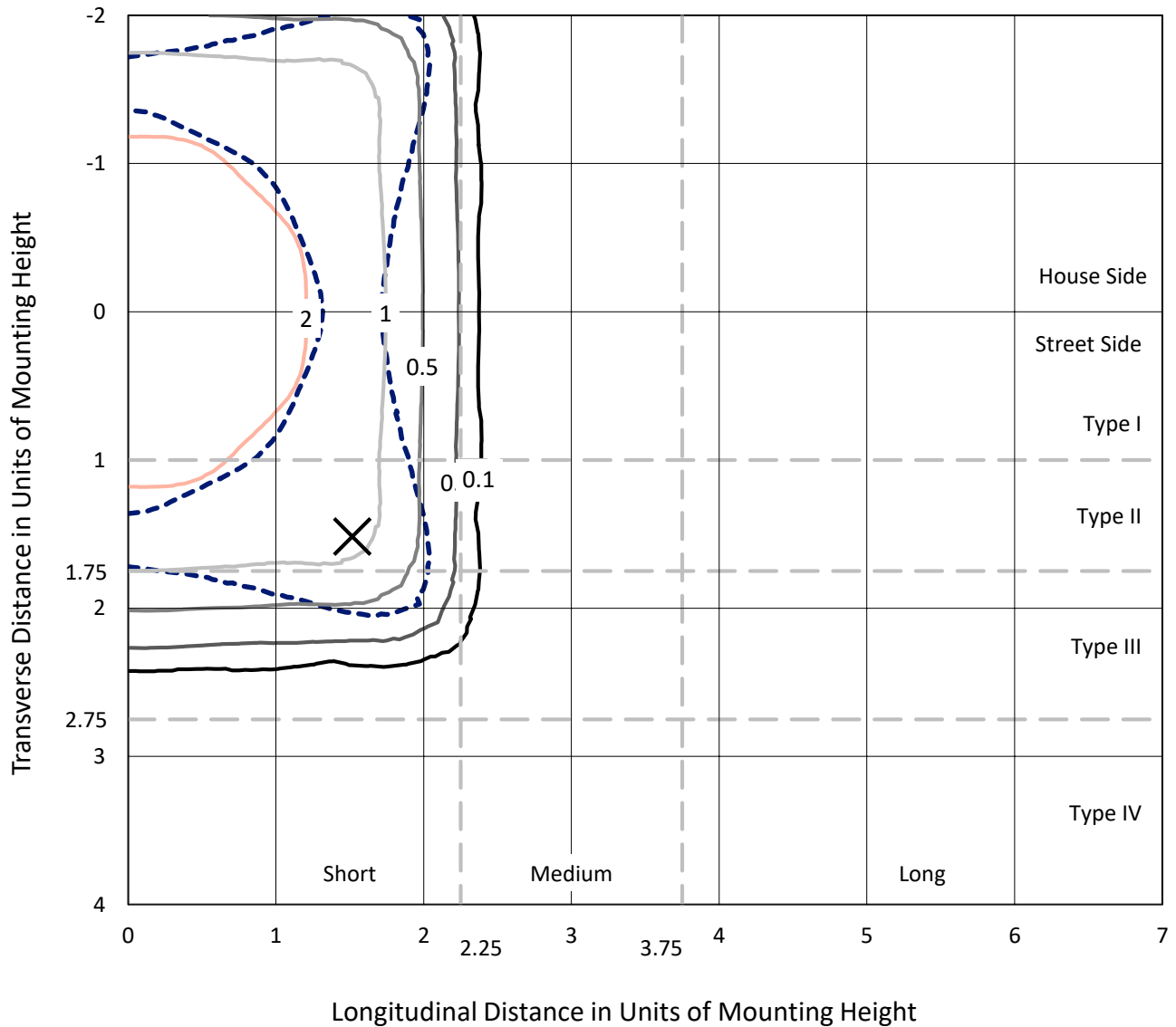


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

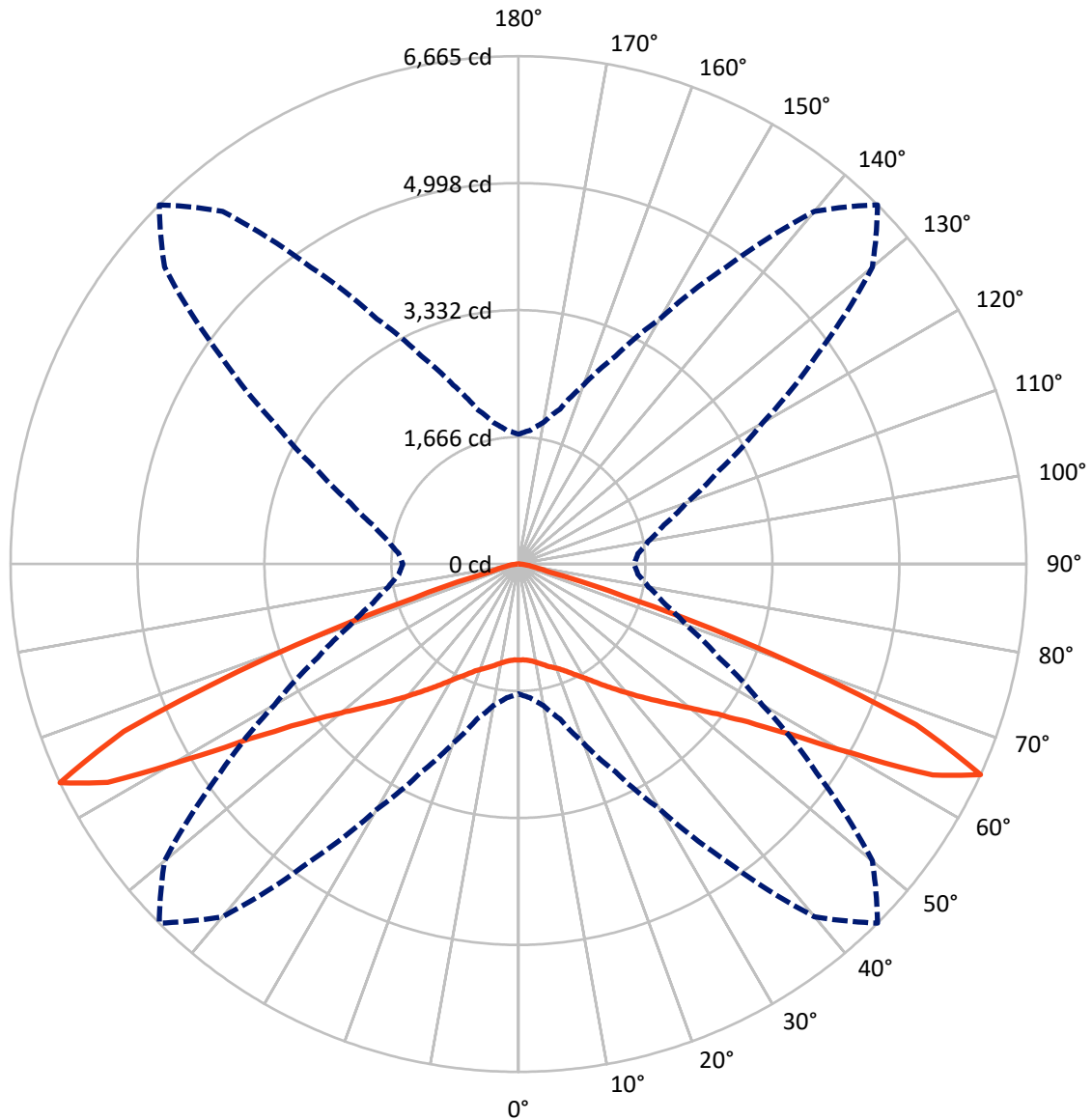


Based on 20 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - Full Cutoff

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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
House Side	Lumens	5566.5	0.0	5566.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5566.5	0.0	5566.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11133.0	0.0	11133.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.8	1.1
10°-20°	393.8	3.5
20°-30°	736.3	6.6
30°-40°	1245.3	11.2
40°-50°	2036.2	18.3
50°-60°	3237.8	29.1
60°-70°	2926.8	26.3
70°-80°	370.4	3.3
80°-90°	63.7	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°	11133.0	100.0
0°-180°	11133.0	100.0



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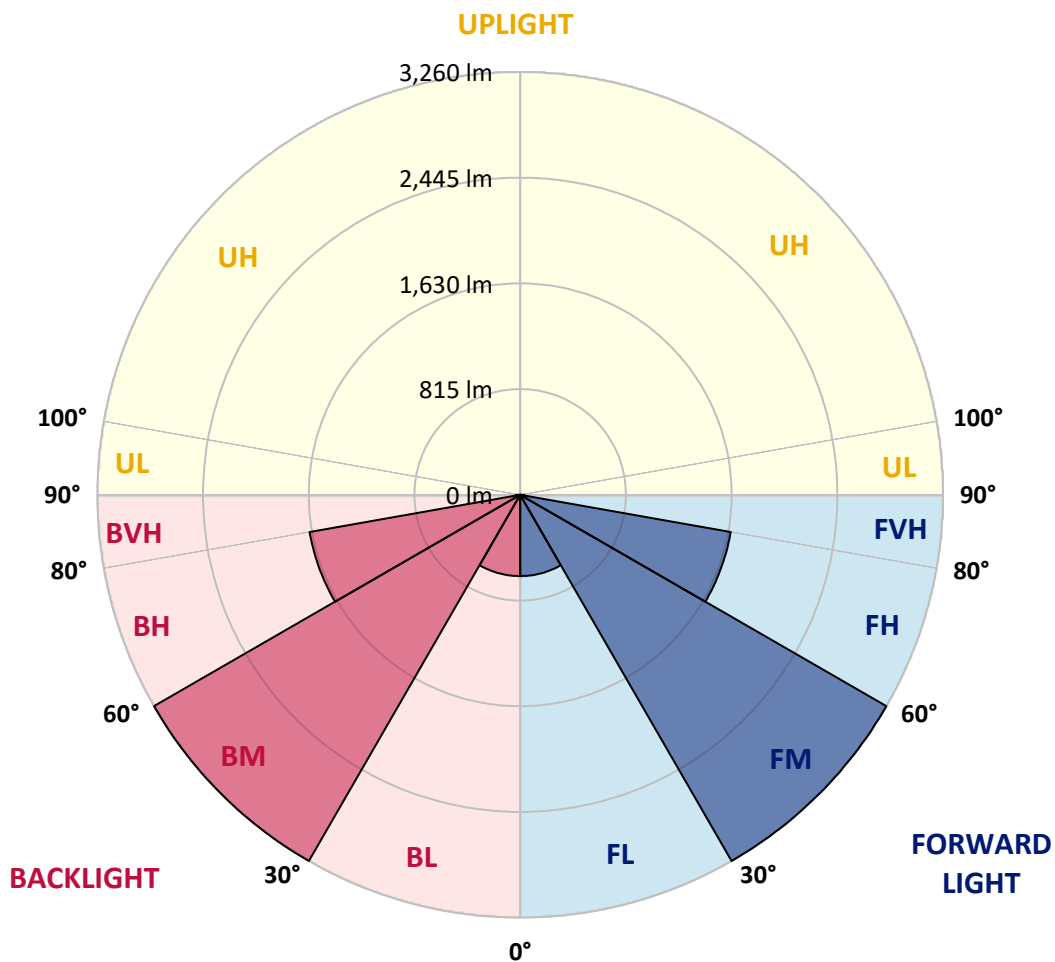
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	626.4	5.6			
FM	(30°-60°)	3259.6	29.3			
FH	(60°-80°)	1648.6	14.8			G1/1800
FVH	(80°-90°)	31.9	0.3			G1/100
BL	(0°-30°)	626.4	5.6	B2/1000		
BM	(30°-60°)	3259.6	29.3	B3/5000		
BH	(60°-80°)	1648.6	14.8	B3/2500		G1/1800
BVH	(80°-90°)	31.9	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°	1259.8	1259.8	1259.8	1259.8	1259.8	1259.8	1259.8	1259.8	1259.8	1259.8	1259.8
2.5°	1260.7	1261.8	1262.8	1261.8	1262.8	1261.3	1260.2	1261.8	1260.2	1258.6	1259.8
5°	1271.7	1272.2	1272.2	1270.7	1272.2	1271.2	1269.7	1271.7	1270.2	1268.5	1269.7
7.5°	1290.0	1292.0	1290.4	1288.9	1290.0	1288.9	1287.9	1288.3	1287.9	1286.4	1286.8
10°	1314.4	1315.9	1314.9	1314.4	1315.5	1314.9	1314.0	1313.4	1314.0	1312.3	1312.3
12.5°	1344.1	1343.7	1343.1	1343.7	1345.2	1345.2	1344.8	1345.2	1346.3	1346.7	1345.8
15°	1373.4	1374.3	1374.3	1374.3	1377.6	1380.2	1381.8	1382.8	1384.8	1385.4	1383.3
17.5°	1409.9	1409.9	1409.4	1409.9	1412.9	1417.2	1418.8	1420.8	1422.8	1424.4	1421.8
20°	1450.6	1451.7	1451.7	1452.6	1456.8	1461.5	1461.5	1462.5	1461.5	1462.5	1461.0
22.5°	1500.1	1503.3	1503.3	1503.8	1507.8	1513.6	1512.0	1513.6	1510.9	1513.0	1510.9
25°	1564.7	1569.3	1568.4	1568.4	1571.5	1575.2	1575.6	1578.9	1578.3	1580.8	1579.3
27.5°	1637.7	1645.1	1647.1	1646.6	1648.7	1652.3	1653.3	1657.1	1654.9	1657.1	1655.9
30°	1725.4	1728.3	1732.7	1734.2	1736.8	1740.5	1740.5	1740.9	1738.3	1741.5	1743.0
32.5°	1816.1	1821.8	1826.0	1835.3	1840.0	1842.7	1842.2	1843.1	1840.5	1844.7	1847.9
35°	1935.9	1940.1	1946.8	1954.3	1960.5	1959.9	1958.3	1958.9	1958.9	1962.5	1965.8
37.5°	2080.4	2081.5	2090.3	2100.7	2103.8	2100.7	2091.3	2089.3	2084.5	2089.3	2094.5
40°	2233.1	2236.8	2254.6	2261.4	2262.9	2257.1	2243.5	2235.7	2225.3	2231.1	2238.3
42.5°	2393.3	2400.5	2416.7	2428.7	2433.9	2430.3	2411.5	2399.5	2385.9	2389.0	2396.4
45°	2570.5	2579.4	2602.3	2613.8	2623.7	2617.9	2599.7	2581.5	2560.1	2561.6	2573.1
47.5°	2768.7	2777.5	2807.3	2826.4	2831.6	2830.6	2810.3	2785.4	2756.1	2755.1	2765.0
50°	2990.7	2999.6	3036.6	3066.4	3081.5	3079.8	3055.9	3020.6	2985.0	2985.5	2998.1
52.5°	3207.7	3218.5	3257.2	3308.3	3338.0	3359.4	3344.7	3311.4	3268.2	3269.2	3280.6
55°	3411.0	3429.2	3473.6	3542.8	3598.3	3658.2	3675.3	3674.2	3648.2	3655.6	3667.1
57.5°	3509.6	3536.6	3605.0	3714.4	3827.0	3949.0	4052.3	4129.5	4162.3	4211.9	4200.4
60°	3322.9	3366.2	3466.7	3627.9	3850.6	4105.0	4377.7	4644.1	4871.4	5042.9	4944.5
62.5°	2720.6	2777.0	2899.0	3105.4	3442.2	3849.4	4371.4	5001.3	5687.3	6101.4	5805.7
65°	1702.4	1760.8	1884.9	2105.9	2500.2	3006.4	3714.4	4758.3	6040.5	6664.5	6062.8
67.5°	663.8	695.6	762.8	904.1	1200.2	1650.7	2361.5	3546.0	5079.5	5626.4	4985.1
70°	332.6	335.7	348.4	374.4	438.0	568.8	865.5	1644.0	2913.1	3518.4	2808.2
72.5°	240.3	240.8	247.2	258.6	279.0	308.2	364.4	503.1	947.4	1447.9	888.0
75°	184.1	186.2	189.8	196.0	207.0	221.6	242.0	290.0	359.2	416.6	350.3
77.5°	141.8	146.0	148.6	154.2	161.2	170.9	176.7	195.0	226.8	238.8	235.1
80°	107.9	111.6	117.3	122.0	126.8	131.4	129.3	137.6	154.2	164.2	159.0
82.5°	68.8	73.0	89.7	93.9	95.8	99.1	95.4	95.8	103.2	109.6	103.2
85°	44.3	46.9	56.9	62.1	62.5	64.7	63.2	59.5	59.5	54.2	61.1
87.5°	20.3	20.8	25.5	30.3	31.4	28.1	27.7	26.6	21.4	20.3	21.9
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°	1259.8	1259.8	1259.8	1259.8	1259.8	1259.8	1259.8	1259.8
2.5°	1259.2	1260.2	1260.7	1262.3	1262.8	1262.8	1263.3	1264.4
5°	1269.0	1270.7	1271.2	1273.3	1273.7	1273.3	1274.2	1274.9
7.5°	1286.8	1289.3	1290.4	1292.5	1291.0	1293.1	1293.6	1293.6
10°	1313.0	1315.5	1315.9	1318.2	1317.0	1318.2	1318.2	1317.0
12.5°	1347.3	1347.7	1346.3	1347.7	1345.8	1346.7	1345.2	1344.1
15°	1385.4	1383.7	1380.2	1380.2	1377.0	1377.6	1377.0	1376.6
17.5°	1422.3	1419.2	1416.6	1415.5	1412.9	1412.5	1410.9	1410.9
20°	1463.0	1461.5	1459.9	1457.8	1455.3	1452.6	1452.1	1453.2
22.5°	1512.0	1511.6	1511.6	1510.5	1506.8	1504.2	1502.7	1502.7
25°	1577.8	1573.0	1573.0	1572.6	1571.0	1569.3	1566.3	1567.8
27.5°	1651.9	1649.2	1651.3	1650.7	1649.2	1649.2	1647.1	1647.1
30°	1743.0	1742.1	1745.0	1742.5	1737.3	1736.8	1734.6	1732.1
32.5°	1848.4	1847.4	1852.0	1848.9	1840.5	1835.9	1831.6	1829.6
35°	1965.8	1966.2	1971.9	1969.9	1960.5	1957.3	1950.0	1949.1
37.5°	2093.9	2102.3	2112.2	2114.3	2106.4	2104.4	2096.6	2092.4
40°	2244.7	2255.6	2270.6	2274.4	2266.1	2264.4	2253.5	2247.7
42.5°	2405.2	2423.9	2442.8	2445.8	2437.6	2429.1	2418.7	2414.6
45°	2584.6	2607.1	2631.4	2637.8	2625.2	2615.3	2601.9	2601.9
47.5°	2785.9	2814.0	2841.6	2858.9	2847.4	2836.9	2820.8	2810.3
50°	3023.5	3062.1	3098.2	3116.0	3097.6	3077.9	3049.7	3040.3
52.5°	3321.8	3363.6	3394.9	3385.4	3357.2	3329.7	3298.8	3286.4
55°	3702.5	3716.6	3716.6	3681.1	3624.8	3578.4	3529.9	3513.7
57.5°	4178.5	4124.3	4040.8	3934.9	3802.0	3686.3	3608.1	3571.0
60°	4737.9	4477.2	4182.7	3893.3	3655.6	3459.6	3343.2	3290.0
62.5°	5110.7	4428.7	3838.5	3373.9	3031.9	2795.7	2635.2	2572.6
65°	4776.6	3693.7	2903.1	2347.4	1974.6	1734.2	1575.2	1516.8
67.5°	3498.5	2314.6	1546.0	1108.0	811.8	647.6	582.5	555.3
70°	1570.4	814.9	499.5	390.0	336.2	308.7	296.7	292.5
72.5°	473.4	342.6	288.9	260.7	239.3	225.7	215.9	214.9
75°	285.8	237.7	211.2	194.6	180.9	170.0	164.7	163.2
77.5°	199.8	174.7	162.1	150.1	139.7	131.4	126.8	123.1
80°	140.2	128.3	122.4	115.7	109.0	101.1	94.4	91.3
82.5°	93.9	91.3	91.3	87.0	81.3	74.0	60.5	57.3
85°	60.5	59.9	61.1	59.5	55.2	47.4	39.0	37.0
87.5°	28.1	28.7	31.8	31.4	30.3	25.1	19.9	18.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)