

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: P193400

Luminaire Tested: **GLEON-AF-02-LED-E1-5NQ-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193400
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-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11245 lumens
Efficiency: N/A
Efficacy: 87.2 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): 129
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

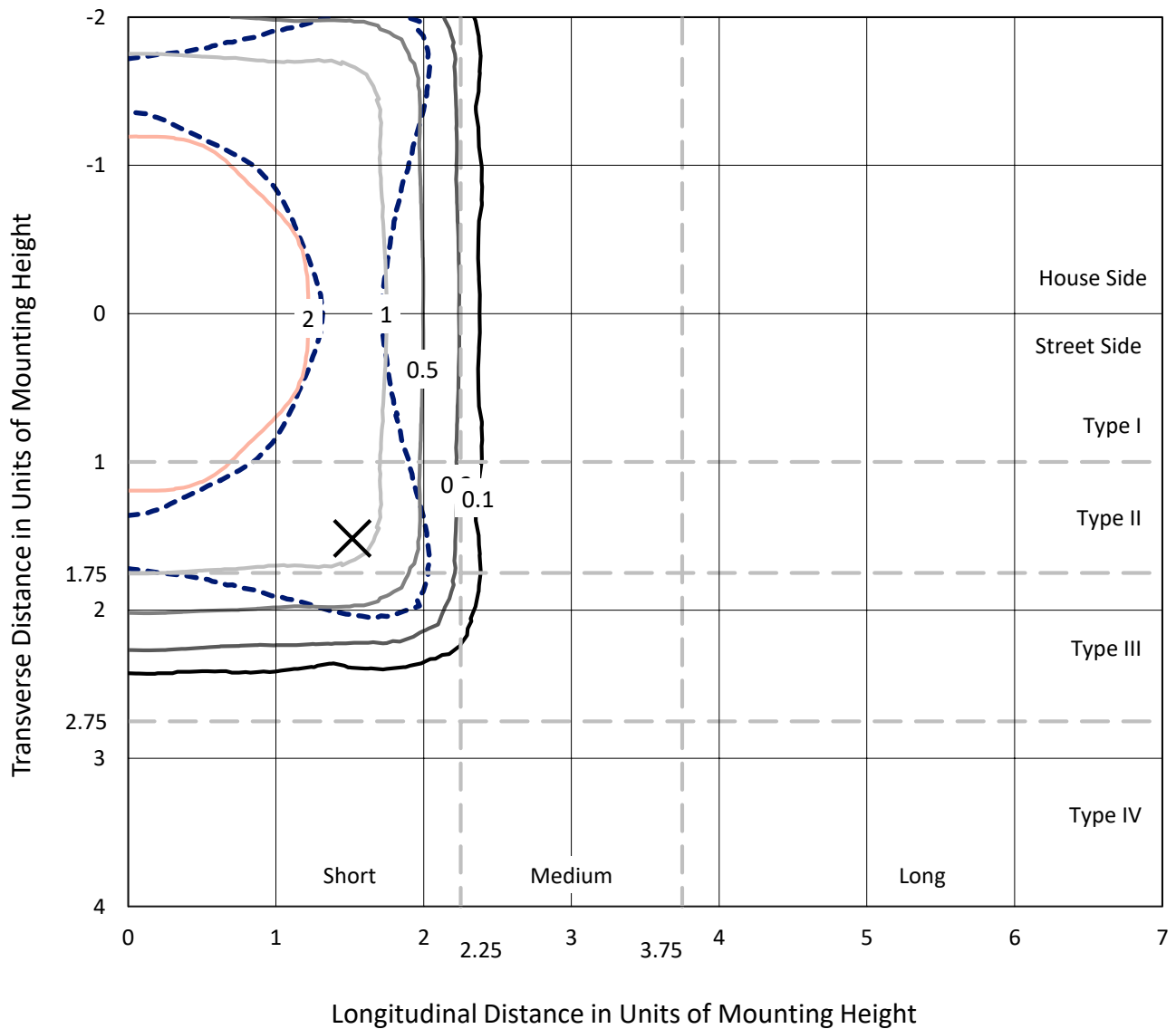


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

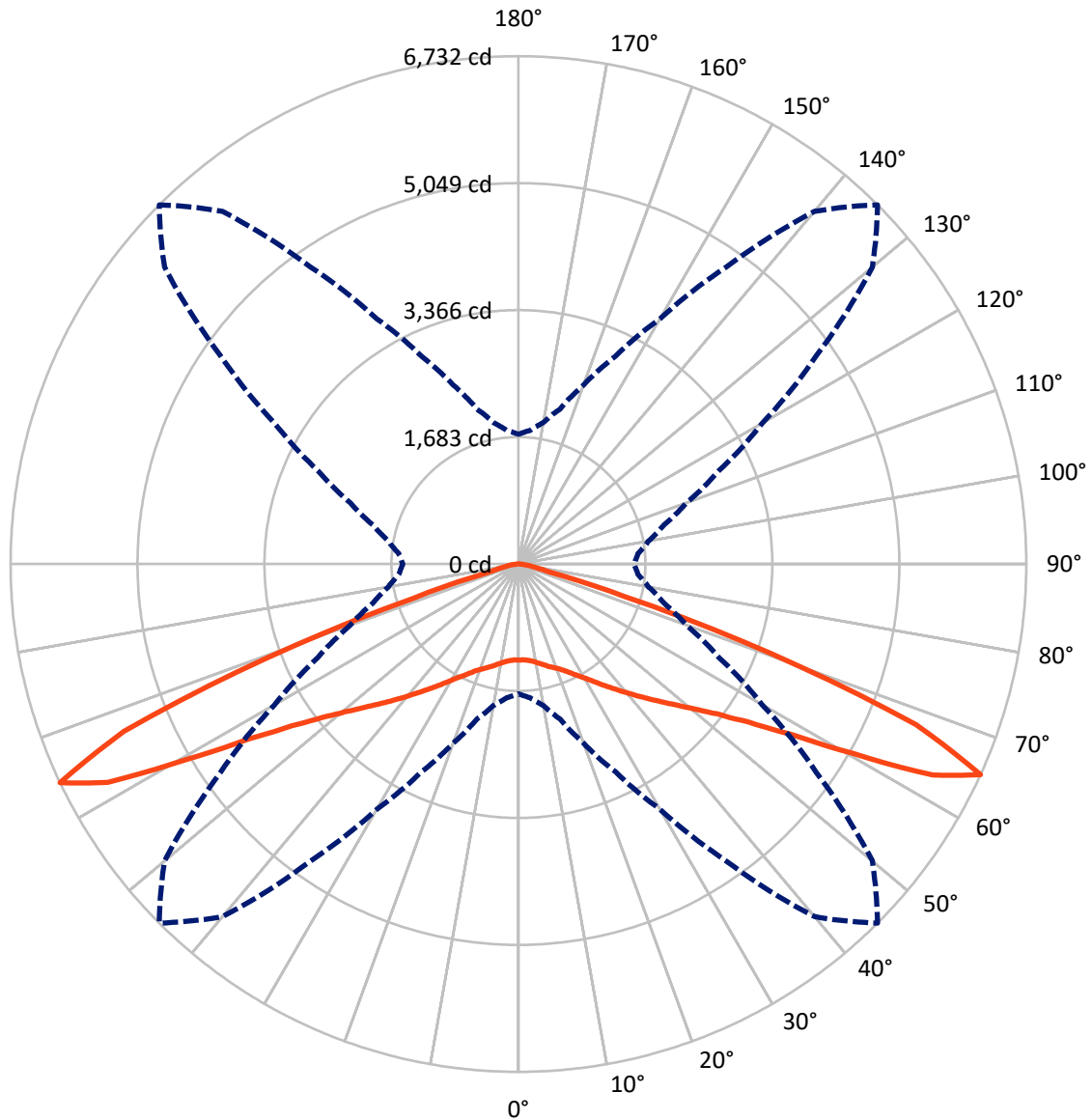


Based on 20 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - Full Cutoff

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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	5622.5	0.0	5622.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5622.5	0.0	5622.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11245.0	0.0	11245.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	1.1
10°-20°	397.7	3.5
20°-30°	743.7	6.6
30°-40°	1257.8	11.2
40°-50°	2056.6	18.3
50°-60°	3270.4	29.1
60°-70°	2956.2	26.3
70°-80°	374.1	3.3
80°-90°	64.4	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°	11245.0	100.0
0°-180°	11245.0	100.0

Coefficient of Utilization



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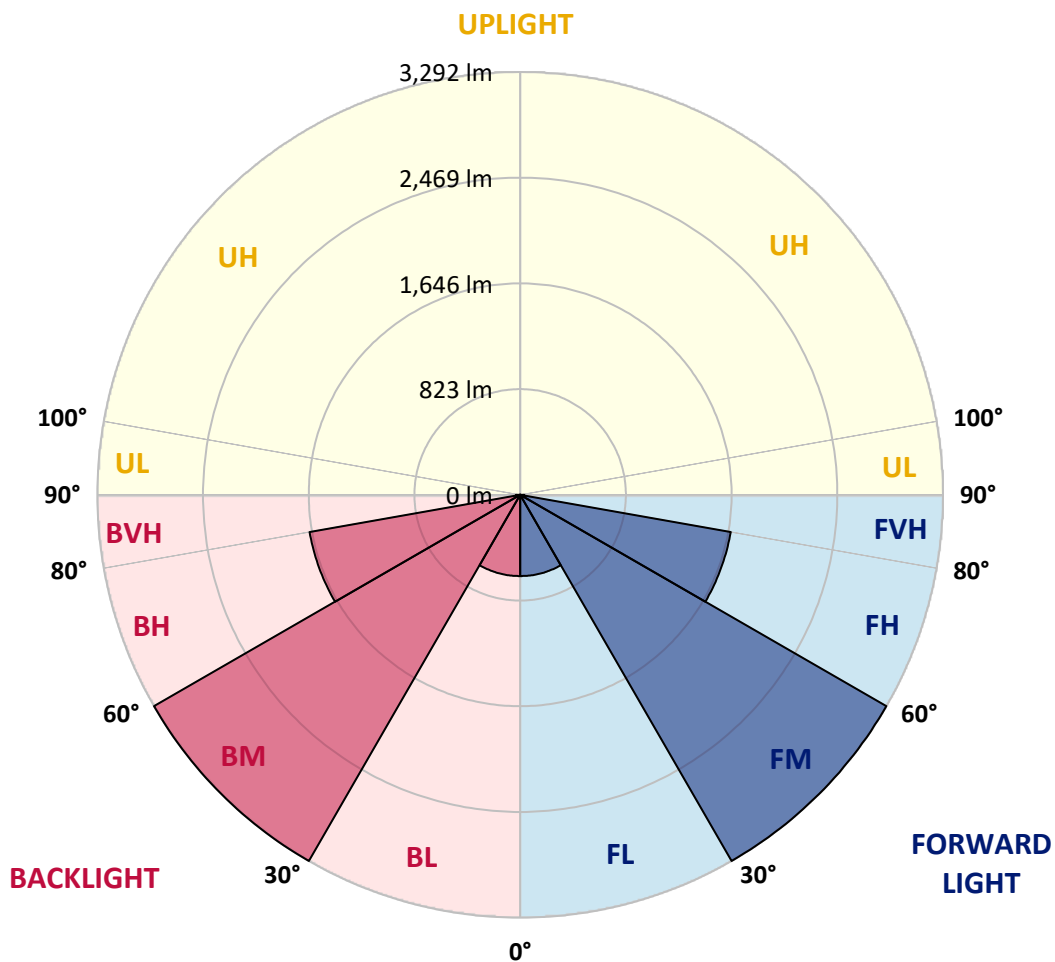
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	632.7	5.6			
FM	(30°-60°)	3292.4	29.3			
FH	(60°-80°)	1665.2	14.8			G1/1800
FVH	(80°-90°)	32.2	0.3			G1/100
BL	(0°-30°)	632.7	5.6	B2/1000		
BM	(30°-60°)	3292.4	29.3	B3/5000		
BH	(60°-80°)	1665.2	14.8	B3/2500		G1/1800
BVH	(80°-90°)	32.2	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°	1272.4	1272.4	1272.4	1272.4	1272.4	1272.4	1272.4	1272.4	1272.4	1272.4	1272.4
2.5°	1273.4	1274.5	1275.5	1274.5	1275.5	1274.0	1272.9	1274.5	1272.9	1271.3	1272.4
5°	1284.5	1285.0	1285.0	1283.4	1285.0	1284.0	1282.4	1284.5	1282.9	1281.3	1282.4
7.5°	1302.9	1305.0	1303.4	1301.9	1302.9	1301.9	1300.8	1301.3	1300.8	1299.2	1299.8
10°	1327.7	1329.3	1328.2	1327.7	1328.7	1328.2	1327.1	1326.6	1327.1	1325.6	1325.6
12.5°	1357.7	1357.2	1356.6	1357.2	1358.7	1358.7	1358.2	1358.7	1359.8	1360.3	1359.3
15°	1387.2	1388.2	1388.2	1388.2	1391.4	1394.0	1395.6	1396.7	1398.8	1399.3	1397.2
17.5°	1424.1	1424.1	1423.5	1424.1	1427.2	1431.4	1433.0	1435.1	1437.2	1438.8	1436.2
20°	1465.1	1466.2	1466.2	1467.2	1471.5	1476.2	1476.2	1477.2	1476.2	1477.2	1475.7
22.5°	1515.2	1518.3	1518.3	1518.8	1523.1	1528.9	1527.3	1528.9	1526.2	1528.3	1526.2
25°	1580.5	1585.2	1584.2	1584.2	1587.3	1591.0	1591.5	1594.7	1594.2	1596.8	1595.2
27.5°	1654.2	1661.6	1663.7	1663.1	1665.3	1668.9	1670.0	1673.7	1671.6	1673.7	1672.6
30°	1742.7	1745.8	1750.0	1751.6	1754.3	1757.9	1757.9	1758.5	1755.8	1759.0	1760.6
32.5°	1834.3	1840.1	1844.3	1853.8	1858.5	1861.2	1860.6	1861.7	1859.1	1863.3	1866.4
35°	1955.4	1959.7	1966.5	1973.9	1980.2	1979.7	1978.1	1978.6	1978.6	1982.3	1985.5
37.5°	2101.3	2102.4	2111.3	2121.9	2125.0	2121.9	2112.4	2110.3	2105.5	2110.3	2115.5
40°	2255.6	2259.3	2277.2	2284.1	2285.6	2279.9	2266.2	2258.3	2247.7	2253.5	2260.9
42.5°	2417.3	2424.7	2441.0	2453.1	2458.4	2454.7	2435.7	2423.6	2409.9	2413.1	2420.5
45°	2596.4	2605.3	2628.5	2640.1	2650.1	2644.3	2625.9	2607.4	2585.8	2587.4	2599.0
47.5°	2796.5	2805.4	2835.5	2855.0	2860.2	2859.2	2838.6	2813.3	2783.9	2782.8	2792.8
50°	3020.8	3029.8	3067.2	3097.2	3112.5	3110.9	3086.7	3050.9	3015.1	3015.6	3028.2
52.5°	3239.9	3251.0	3290.0	3341.6	3371.6	3393.2	3378.4	3344.7	3301.0	3302.1	3313.7
55°	3445.3	3463.8	3508.5	3578.6	3634.4	3695.0	3712.3	3711.3	3684.9	3692.3	3703.9
57.5°	3544.9	3572.2	3641.2	3751.8	3865.6	3988.8	4093.1	4171.0	4204.2	4254.2	4242.7
60°	3356.3	3400.0	3501.7	3664.4	3889.3	4146.3	4421.7	4690.8	4920.5	5093.7	4994.2
62.5°	2748.0	2804.9	2928.2	3136.7	3476.9	3888.2	4415.4	5051.6	5744.7	6162.8	5864.2
65°	1719.5	1778.5	1903.8	2127.1	2525.3	3036.6	3751.8	4806.2	6101.2	6731.6	6123.8
67.5°	670.4	702.5	770.5	913.2	1212.3	1667.4	2385.2	3581.7	5130.6	5683.0	5035.3
70°	336.0	339.2	351.8	378.1	442.4	574.6	874.2	1660.5	2942.4	3553.8	2836.5
72.5°	242.8	243.3	249.6	261.2	281.8	311.2	368.1	508.2	956.9	1462.5	896.9
75°	185.9	188.0	191.7	198.0	209.1	223.8	244.4	292.8	362.9	420.8	353.9
77.5°	143.2	147.5	150.1	155.9	162.7	172.7	178.5	197.0	229.1	241.2	237.5
80°	109.0	112.7	118.5	123.2	128.0	132.7	130.6	139.0	155.9	165.9	160.6
82.5°	69.5	73.7	90.6	94.8	96.9	100.1	96.4	96.9	104.3	110.6	104.3
85°	44.8	47.4	57.4	62.7	63.2	65.3	63.7	60.0	60.0	54.8	61.6
87.5°	20.5	21.1	25.8	30.5	31.6	28.4	27.9	26.9	21.6	20.5	22.1
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°	1272.4	1272.4	1272.4	1272.4	1272.4	1272.4	1272.4	1272.4
2.5°	1271.9	1272.9	1273.4	1275.0	1275.5	1275.5	1276.1	1277.1
5°	1281.9	1283.4	1284.0	1286.1	1286.6	1286.1	1287.1	1287.7
7.5°	1299.8	1302.4	1303.4	1305.6	1304.0	1306.1	1306.6	1306.6
10°	1326.1	1328.7	1329.3	1331.4	1330.3	1331.4	1331.4	1330.3
12.5°	1360.9	1361.4	1359.8	1361.4	1359.3	1360.3	1358.7	1357.7
15°	1399.3	1397.7	1394.0	1394.0	1390.9	1391.4	1390.9	1390.3
17.5°	1436.7	1433.5	1430.9	1429.8	1427.2	1426.7	1425.1	1425.1
20°	1477.8	1476.2	1474.6	1472.5	1469.9	1467.2	1466.7	1467.8
22.5°	1527.3	1526.7	1526.7	1525.7	1522.0	1519.4	1517.8	1517.8
25°	1593.6	1588.9	1588.9	1588.4	1586.8	1585.2	1582.0	1583.6
27.5°	1668.4	1665.8	1667.9	1667.4	1665.8	1665.8	1663.7	1663.7
30°	1760.6	1759.5	1762.7	1760.1	1754.8	1754.3	1752.2	1749.5
32.5°	1867.0	1865.9	1870.6	1867.5	1859.1	1854.3	1850.1	1848.0
35°	1985.5	1986.0	1991.8	1989.7	1980.2	1977.0	1969.7	1968.6
37.5°	2115.0	2123.4	2133.4	2135.6	2127.7	2125.5	2117.6	2113.4
40°	2267.2	2278.3	2293.5	2297.2	2288.8	2287.2	2276.2	2270.4
42.5°	2429.4	2448.4	2467.3	2470.5	2462.1	2453.6	2443.1	2438.9
45°	2610.6	2633.2	2658.0	2664.3	2651.7	2641.7	2628.0	2628.0
47.5°	2813.9	2842.3	2870.2	2887.6	2876.0	2865.5	2849.2	2838.6
50°	3054.0	3093.0	3129.3	3147.2	3128.8	3108.8	3080.4	3070.9
52.5°	3355.3	3397.4	3429.0	3419.5	3391.1	3363.2	3332.1	3319.5
55°	3739.7	3753.9	3753.9	3718.1	3661.2	3614.4	3565.4	3549.1
57.5°	4220.5	4165.8	4081.5	3974.6	3840.3	3723.4	3644.4	3607.0
60°	4785.6	4522.3	4224.8	3932.5	3692.3	3494.3	3376.9	3323.1
62.5°	5162.2	4473.3	3877.2	3407.9	3062.4	2823.9	2661.7	2598.5
65°	4824.6	3730.8	2932.4	2371.0	1994.4	1751.6	1591.0	1532.0
67.5°	3533.8	2337.8	1561.5	1119.1	820.0	654.1	588.3	560.9
70°	1586.3	823.1	504.5	393.9	339.7	311.8	299.7	295.4
72.5°	478.2	346.0	291.8	263.3	241.7	228.0	218.0	217.0
75°	288.6	240.2	213.3	196.4	182.7	171.7	166.4	164.8
77.5°	201.7	176.4	163.8	151.7	141.1	132.7	128.0	124.3
80°	141.7	129.6	123.8	116.9	110.1	102.2	95.3	92.2
82.5°	94.8	92.2	92.2	87.9	82.2	74.8	61.1	57.9
85°	61.1	60.6	61.6	60.0	55.8	47.9	39.5	37.4
87.5°	28.4	29.0	32.1	31.6	30.5	25.3	20.0	19.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)