

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: P193373

Luminaire Tested: **GLEON-AF-05-LED-E1-5NQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193373
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-05-LED-E1-5NQ-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16499 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 162
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

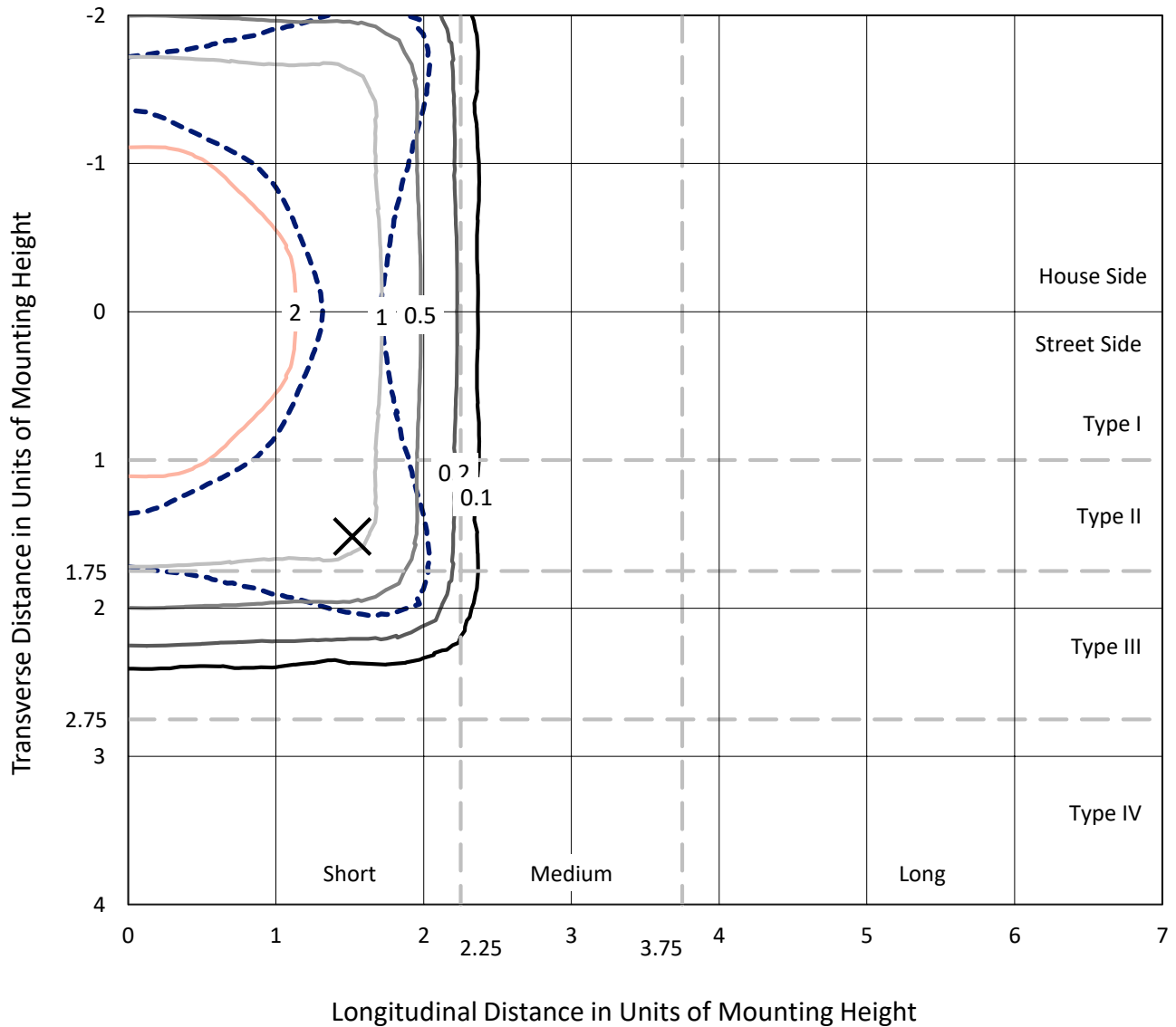


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

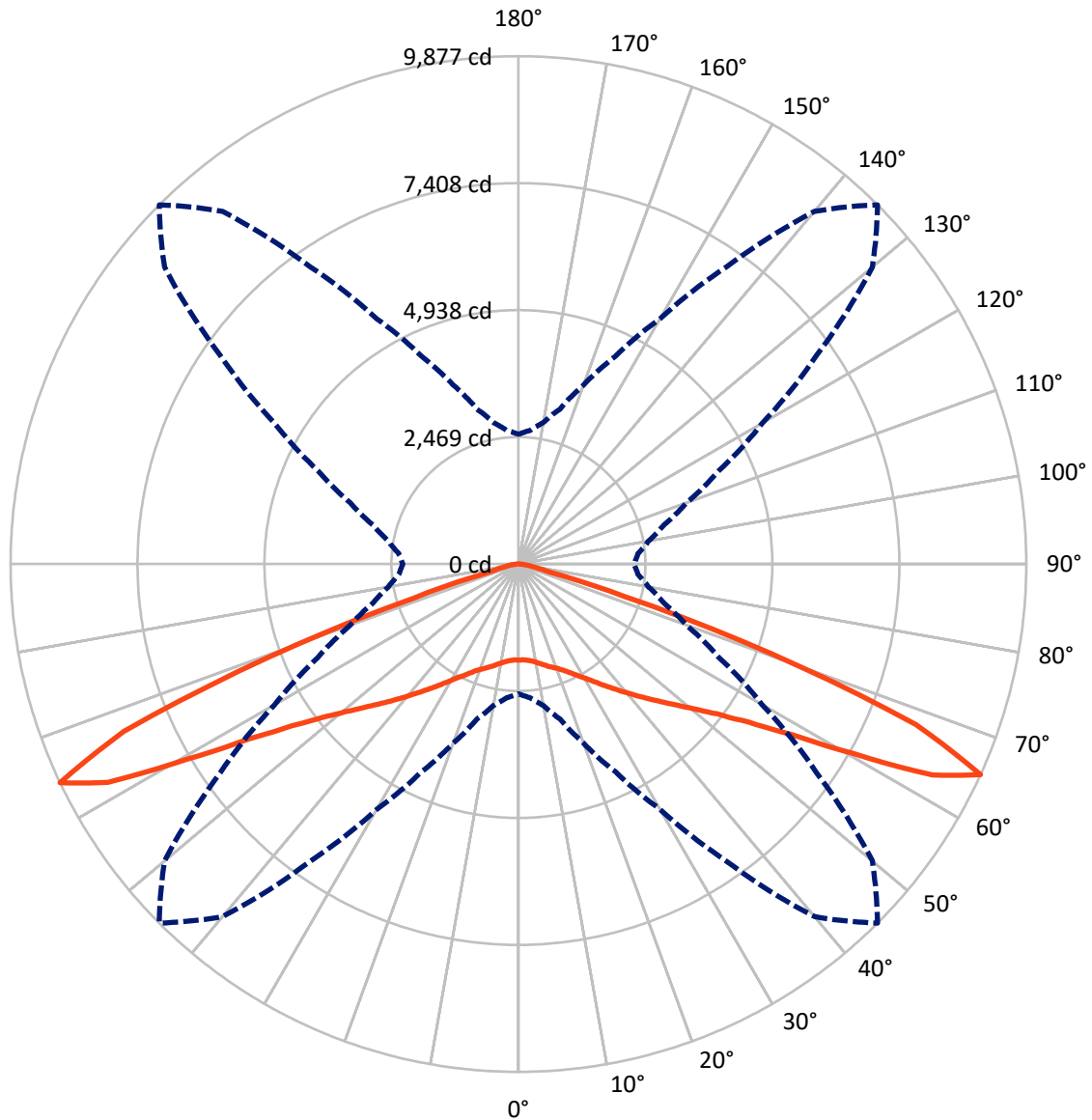


Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Full Cutoff

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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	8249.5	0.0	8249.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8249.5	0.0	8249.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16499.0	0.0	16499.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.0	1.1
10°-20°	583.6	3.5
20°-30°	1091.2	6.6
30°-40°	1845.5	11.2
40°-50°	3017.6	18.3
50°-60°	4798.4	29.1
60°-70°	4337.5	26.3
70°-80°	548.9	3.3
80°-90°	94.4	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°	16499.0	100.0
0°-180°	16499.0	100.0



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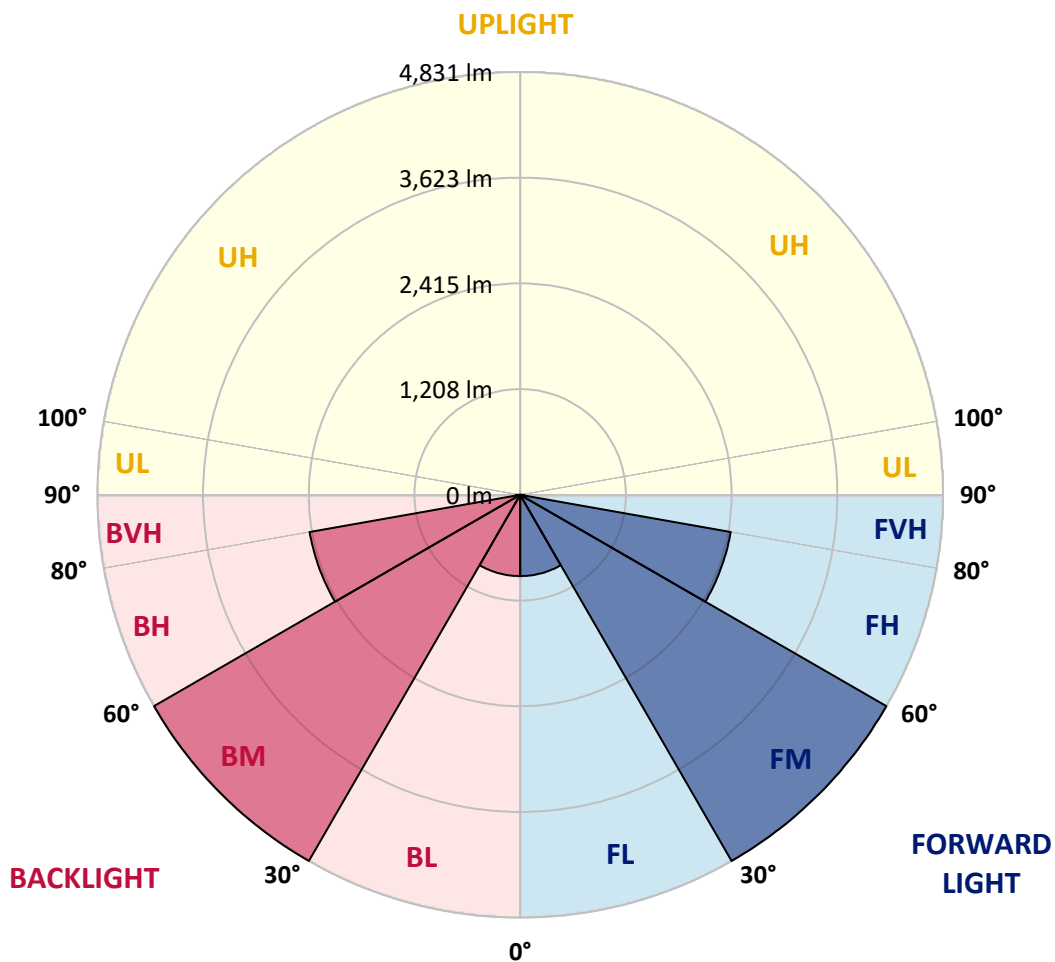
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	928.4	5.6			
FM	(30°-60°)	4830.7	29.3			
FH	(60°-80°)	2443.2	14.8			G2/5000
FVH	(80°-90°)	47.2	0.3			G1/100
BL	(0°-30°)	928.4	5.6	B2/1000		
BM	(30°-60°)	4830.7	29.3	B3/5000		
BH	(60°-80°)	2443.2	14.8	B3/2500		G2/5000
BVH	(80°-90°)	47.2	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1866.9	1866.9	1866.9	1866.9	1866.9	1866.9	1866.9	1866.9	1866.9	1866.9	1866.9
2.5°	1868.4	1870.0	1871.5	1870.0	1871.5	1869.2	1867.6	1870.0	1867.6	1865.3	1866.9
5°	1884.6	1885.4	1885.4	1883.1	1885.4	1883.9	1881.6	1884.6	1882.3	1880.0	1881.6
7.5°	1911.7	1914.8	1912.5	1910.1	1911.7	1910.1	1908.6	1909.4	1908.6	1906.3	1907.1
10°	1948.0	1950.3	1948.8	1948.0	1949.6	1948.8	1947.2	1946.5	1947.2	1944.9	1944.9
12.5°	1992.0	1991.3	1990.5	1991.3	1993.6	1993.6	1992.8	1993.6	1995.1	1995.9	1994.4
15°	2035.3	2036.9	2036.9	2036.9	2041.5	2045.4	2047.7	2049.2	2052.3	2053.1	2050.0
17.5°	2089.4	2089.4	2088.6	2089.4	2094.0	2100.2	2102.5	2105.6	2108.7	2111.0	2107.2
20°	2149.7	2151.2	2151.2	2152.8	2159.0	2165.9	2165.9	2167.5	2165.9	2167.5	2165.1
22.5°	2223.1	2227.7	2227.7	2228.5	2234.7	2243.2	2240.9	2243.2	2239.3	2242.4	2239.3
25°	2318.9	2325.9	2324.3	2324.3	2329.0	2334.4	2335.1	2339.8	2339.0	2342.9	2340.5
27.5°	2427.1	2437.9	2441.0	2440.2	2443.3	2448.7	2450.3	2455.7	2452.6	2455.7	2454.1
30°	2556.9	2561.5	2567.7	2570.0	2573.9	2579.3	2579.3	2580.1	2576.2	2580.9	2583.2
32.5°	2691.4	2699.9	2706.0	2719.9	2726.9	2730.8	2730.0	2731.5	2727.7	2733.9	2738.5
35°	2869.1	2875.3	2885.3	2896.1	2905.4	2904.6	2902.3	2903.1	2903.1	2908.5	2913.1
37.5°	3083.1	3084.7	3097.8	3113.3	3117.9	3113.3	3099.3	3096.3	3089.3	3096.3	3104.0
40°	3309.5	3314.9	3341.2	3351.2	3353.6	3345.1	3325.0	3313.4	3297.9	3306.4	3317.2
42.5°	3546.7	3557.6	3581.5	3599.3	3607.0	3601.6	3573.8	3556.0	3535.9	3540.6	3551.4
45°	3809.5	3822.6	3856.6	3873.6	3888.3	3879.8	3852.7	3825.7	3794.0	3796.3	3813.3
47.5°	4103.1	4116.2	4160.3	4188.9	4196.6	4195.1	4164.9	4127.8	4084.6	4083.0	4097.7
50°	4432.3	4445.4	4500.3	4544.3	4566.7	4564.4	4528.9	4476.3	4423.8	4424.5	4443.1
52.5°	4753.7	4769.9	4827.1	4902.9	4946.9	4978.6	4956.9	4907.5	4843.4	4844.9	4861.9
55°	5055.1	5082.1	5147.8	5250.6	5332.5	5421.3	5446.8	5445.3	5406.7	5417.5	5434.5
57.5°	5201.1	5241.3	5342.5	5504.8	5671.7	5852.5	6005.5	6119.9	6168.6	6242.0	6225.0
60°	4924.5	4988.6	5137.8	5376.5	5706.5	6083.6	6487.7	6882.5	7219.4	7473.7	7327.6
62.5°	4032.0	4115.5	4296.3	4602.3	5101.4	5704.9	6478.4	7411.8	8428.7	9042.3	8604.1
65°	2522.9	2609.4	2793.4	3121.0	3705.2	4455.5	5504.8	7051.8	8951.9	9876.8	8985.1
67.5°	983.7	1030.8	1130.5	1339.9	1778.8	2446.4	3499.6	5255.2	7527.8	8338.3	7387.9
70°	493.0	497.6	516.2	554.8	649.1	843.0	1282.7	2436.4	4317.1	5214.3	4161.8
72.5°	356.2	357.0	366.3	383.3	413.4	456.7	540.1	745.7	1404.0	2145.8	1315.9
75°	272.8	275.9	281.3	290.5	306.8	328.4	358.5	429.6	532.4	617.4	519.3
77.5°	210.2	216.4	220.2	228.7	238.8	253.4	261.9	289.0	336.1	353.9	348.5
80°	160.0	165.4	173.9	180.8	187.8	194.7	191.6	204.0	228.7	243.4	235.7
82.5°	102.0	108.2	132.9	139.1	142.2	146.8	141.4	142.2	153.0	162.3	153.0
85°	65.7	69.5	84.2	92.0	92.7	95.8	93.5	88.1	88.1	80.4	90.4
87.5°	30.1	30.9	37.9	44.8	46.4	41.7	41.0	39.4	31.7	30.1	32.5
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°	1866.9	1866.9	1866.9	1866.9	1866.9	1866.9	1866.9	1866.9
2.5°	1866.1	1867.6	1868.4	1870.7	1871.5	1871.5	1872.3	1873.8
5°	1880.8	1883.1	1883.9	1887.0	1887.7	1887.0	1888.5	1889.3
7.5°	1907.1	1910.9	1912.5	1915.6	1913.2	1916.3	1917.1	1917.1
10°	1945.7	1949.6	1950.3	1953.4	1951.9	1953.4	1953.4	1951.9
12.5°	1996.7	1997.5	1995.1	1997.5	1994.4	1995.9	1993.6	1992.0
15°	2053.1	2050.8	2045.4	2045.4	2040.7	2041.5	2040.7	2040.0
17.5°	2108.0	2103.3	2099.5	2097.9	2094.0	2093.3	2091.0	2091.0
20°	2168.2	2165.9	2163.6	2160.5	2156.6	2152.8	2152.0	2153.5
22.5°	2240.9	2240.1	2240.1	2238.5	2233.1	2229.3	2227.0	2227.0
25°	2338.2	2331.3	2331.3	2330.5	2328.2	2325.9	2321.2	2323.5
27.5°	2447.9	2444.1	2447.2	2446.4	2444.1	2444.1	2441.0	2441.0
30°	2583.2	2581.6	2586.3	2582.4	2574.7	2573.9	2570.8	2566.9
32.5°	2739.3	2737.7	2744.7	2740.0	2727.7	2720.7	2714.5	2711.4
35°	2913.1	2913.9	2922.4	2919.3	2905.4	2900.8	2889.9	2888.4
37.5°	3103.2	3115.6	3130.3	3133.3	3121.8	3118.7	3107.1	3100.9
40°	3326.5	3342.7	3365.2	3370.6	3358.2	3355.9	3339.7	3331.2
42.5°	3564.5	3592.3	3620.2	3624.8	3612.4	3600.1	3584.6	3578.4
45°	3830.3	3863.6	3899.9	3909.1	3890.6	3875.9	3855.8	3855.8
47.5°	4128.6	4170.3	4211.3	4236.8	4219.8	4204.3	4180.4	4164.9
50°	4481.0	4538.1	4591.5	4617.7	4590.7	4561.3	4519.6	4505.7
52.5°	4922.9	4984.8	5031.1	5017.2	4975.5	4934.5	4888.9	4870.4
55°	5487.0	5507.9	5507.9	5455.3	5371.9	5303.1	5231.3	5207.3
57.5°	6192.5	6112.1	5988.5	5831.7	5634.6	5463.1	5347.2	5292.3
60°	7021.6	6635.3	6198.7	5769.8	5417.5	5126.9	4954.6	4875.8
62.5°	7574.1	6563.4	5688.7	5000.2	4493.3	4143.3	3905.3	3812.6
65°	7078.8	5473.9	4302.5	3478.7	2926.3	2570.0	2334.4	2247.8
67.5°	5184.9	3430.1	2291.1	1642.0	1203.1	959.7	863.1	822.9
70°	2327.4	1207.7	740.3	578.0	498.4	457.4	439.7	433.5
72.5°	701.6	507.7	428.1	386.4	354.7	334.6	319.9	318.4
75°	423.4	352.4	312.9	288.2	268.1	251.9	244.2	241.9
77.5°	295.9	258.9	240.3	222.5	207.1	194.7	187.8	182.4
80°	207.9	190.1	181.6	171.5	161.5	149.9	139.9	135.2
82.5°	139.1	135.2	135.2	129.0	120.5	109.7	89.6	85.0
85°	89.6	88.9	90.4	88.1	81.9	70.3	58.0	54.9
87.5°	41.7	42.5	47.1	46.4	44.8	37.1	29.4	27.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)