

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: P382927

Luminaire Tested: **GLEON-SA2D-735-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2D-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14792 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

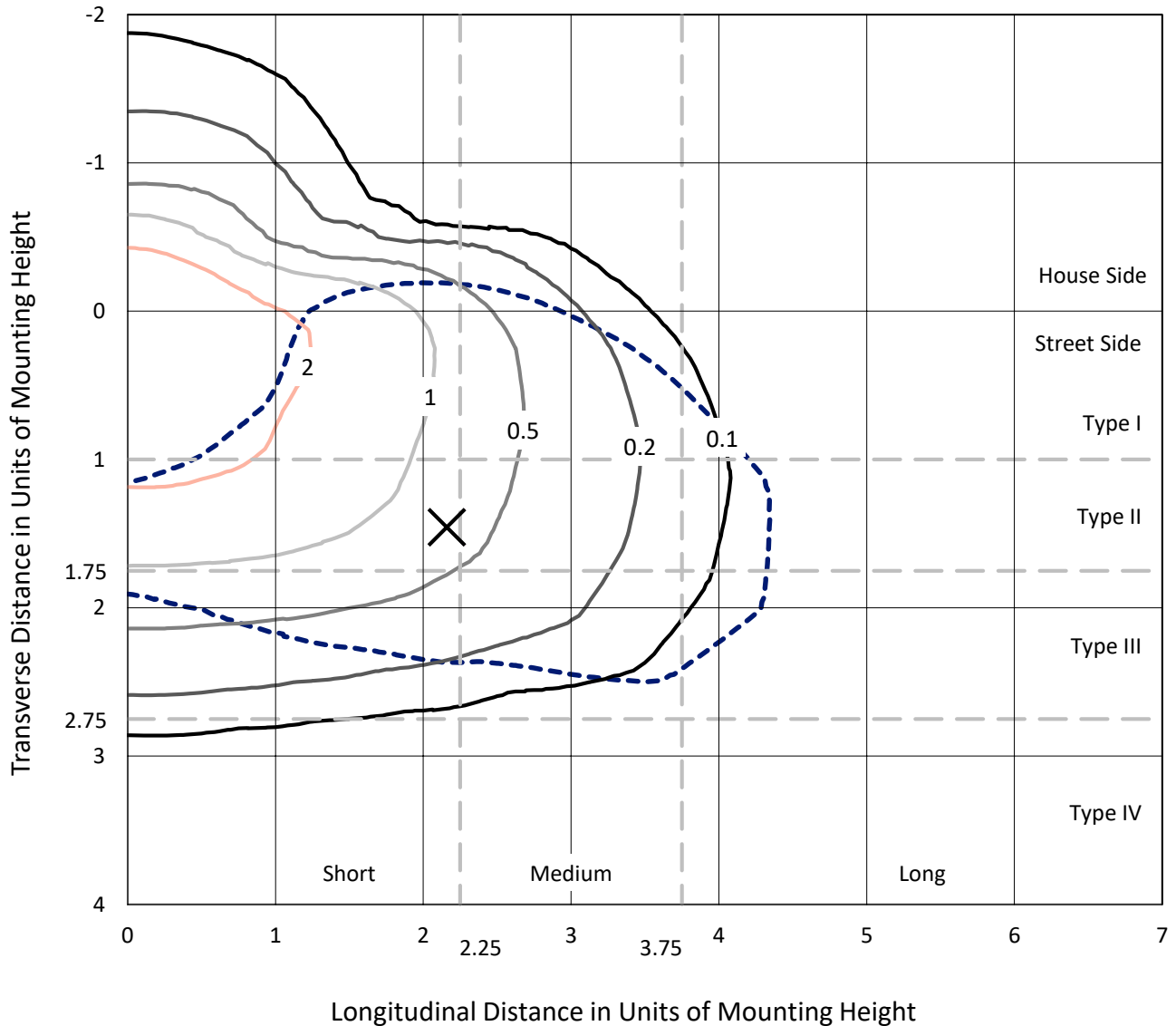
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

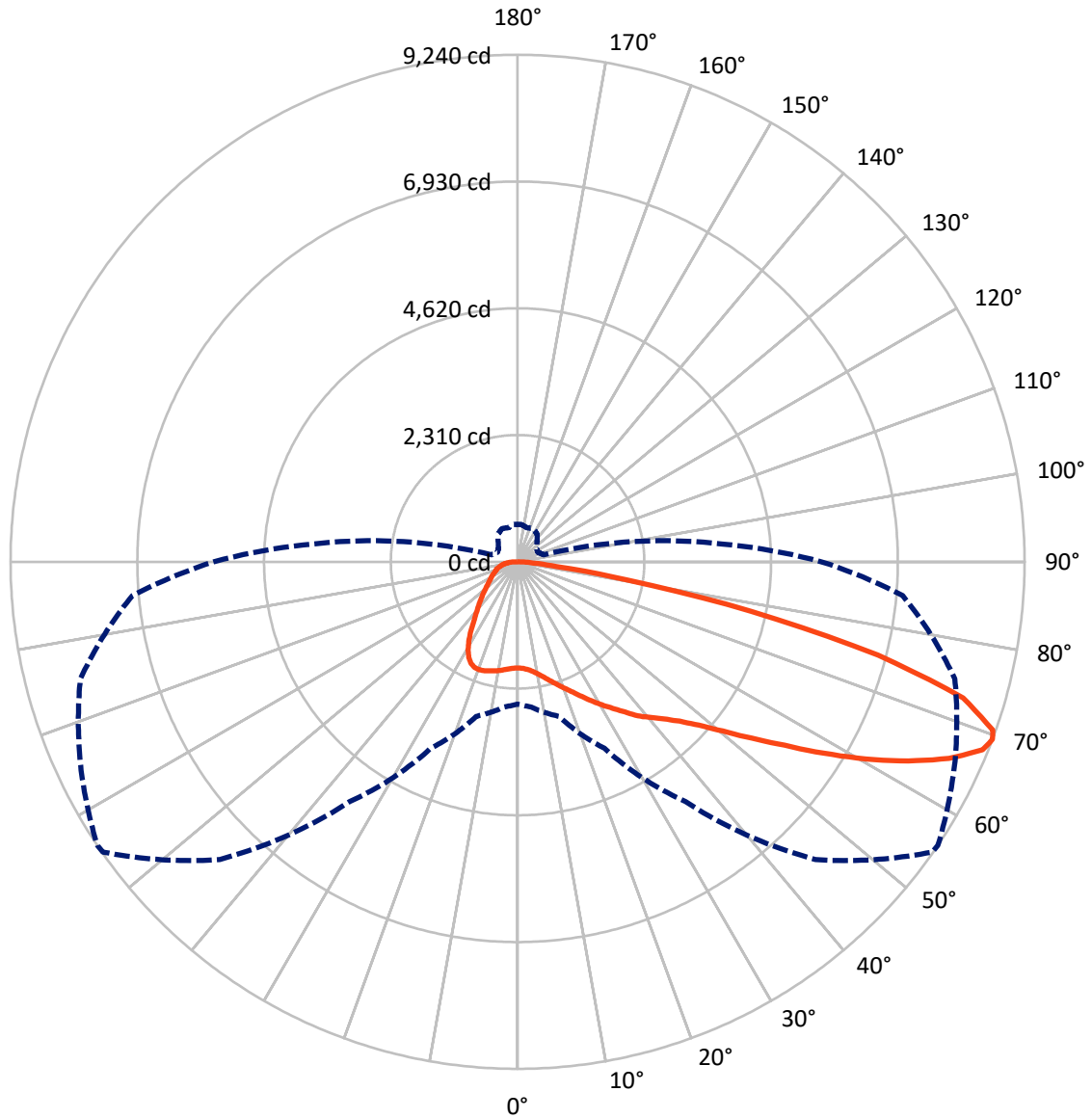
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3294.2	0.0	3294.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	11497.9	0.0	11497.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	14792.0	0.0	14792.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.9	1.3
10°-20°	610.8	4.1
20°-30°	1066.1	7.2
30°-40°	1531.5	10.4
40°-50°	2119.5	14.3
50°-60°	3105.3	21.0
60°-70°	3786.0	25.6
70°-80°	2093.1	14.2
80°-90°	289.9	2.0
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°	14792.0	100.0
0°-180°	14792.0	100.0

Coefficient of Utilization



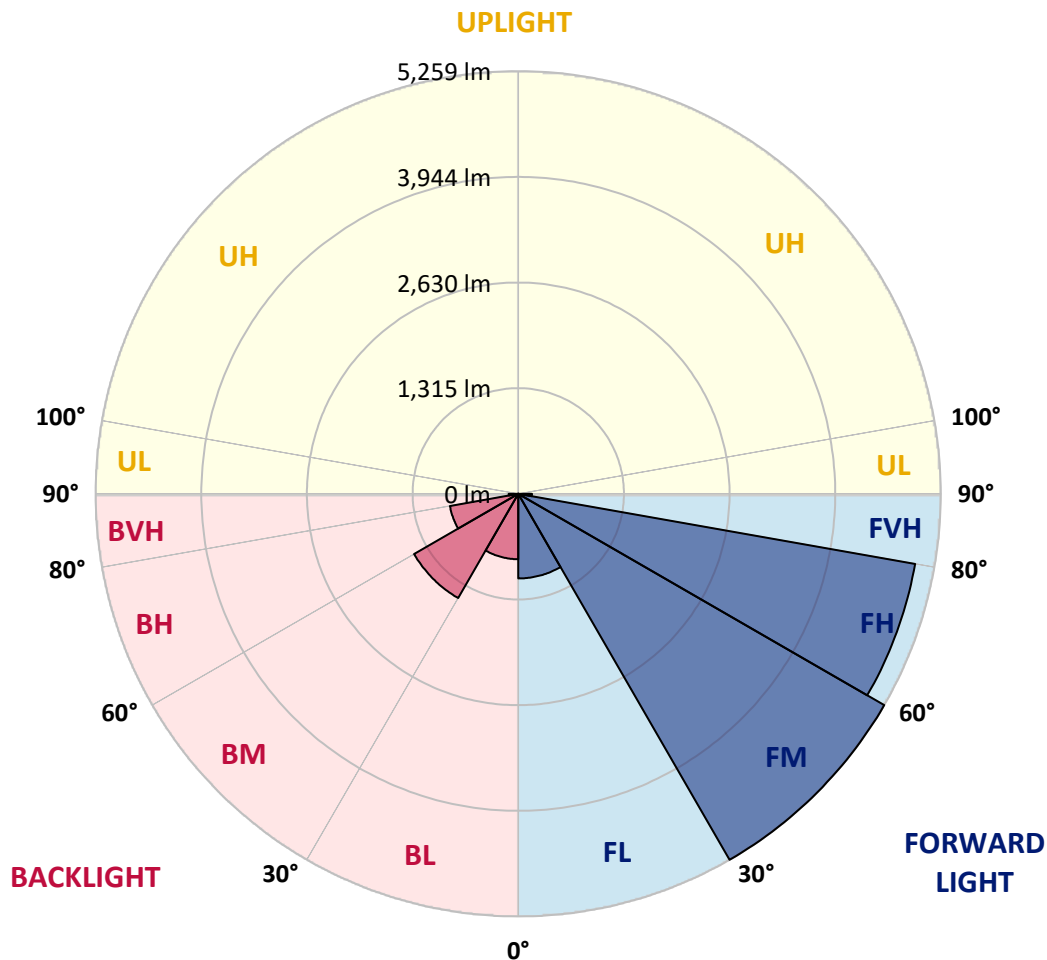
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1052.8	7.1			
FM (30°-60°)	5259.1	35.6			
FH (60°-80°)	5015.2	33.9			G3/7500
FVH (80°-90°)	170.8	1.2			G2/225
BL (0°-30°)	814.1	5.5	B2/1000		
BM (30°-60°)	1497.1	10.1	B2/2500		
BH (60°-80°)	863.8	5.8	B2/1000		G2/1000
BVH (80°-90°)	119.1	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1933.8	1933.8	1933.8	1933.8	1933.8	1933.8	1933.8	1933.8	1933.8	1933.8	1933.8
2.5°	1946.1	1948.1	1946.6	1950.7	1946.1	1949.2	1946.6	1946.6	1945.1	1940.5	1935.4
5°	1976.7	1980.7	1978.1	1982.2	1976.7	1977.7	1973.1	1973.1	1968.5	1958.8	1948.6
7.5°	2024.5	2029.1	2027.0	2031.1	2023.5	2023.5	2017.5	2016.9	2007.8	1991.9	1980.2
10°	2081.6	2087.7	2085.7	2091.8	2085.7	2087.7	2081.6	2081.6	2069.3	2047.0	2032.2
12.5°	2164.6	2172.3	2166.7	2166.2	2163.6	2167.7	2162.7	2161.7	2150.4	2119.8	2099.4
15°	2275.8	2283.9	2272.2	2271.2	2257.0	2255.4	2255.4	2253.9	2246.7	2210.0	2176.4
17.5°	2403.7	2406.2	2396.0	2379.7	2361.4	2349.6	2348.2	2352.2	2352.2	2309.4	2255.9
20°	2529.1	2533.6	2525.4	2507.1	2483.7	2466.4	2454.1	2462.3	2461.8	2410.8	2334.8
22.5°	2665.6	2676.2	2664.0	2640.7	2613.1	2593.7	2572.4	2579.5	2580.0	2517.3	2412.3
25°	2842.4	2832.7	2825.1	2791.9	2752.7	2732.9	2712.9	2720.1	2718.1	2632.0	2492.4
27.5°	2998.8	3000.9	2990.7	2955.5	2910.2	2866.4	2865.3	2869.9	2862.3	2751.2	2567.7
30°	3180.8	3181.8	3167.5	3136.0	3086.5	3030.0	3016.7	3024.4	3008.1	2864.3	2647.3
32.5°	3361.7	3366.8	3351.0	3312.8	3273.0	3204.2	3177.7	3182.8	3142.0	2980.0	2729.2
35°	3520.1	3527.3	3522.2	3496.8	3453.4	3394.3	3362.7	3359.6	3309.1	3121.6	2837.9
37.5°	3681.7	3688.3	3682.7	3661.3	3643.9	3581.3	3564.5	3564.5	3476.8	3266.4	2975.9
40°	3847.8	3858.0	3851.4	3821.8	3807.0	3778.5	3738.2	3728.5	3633.8	3440.1	3201.2
42.5°	4002.2	4015.4	4042.0	4024.7	3994.6	3998.7	3917.6	3912.5	3843.2	3696.9	3484.0
45°	4221.3	4240.7	4285.5	4272.3	4266.1	4243.8	4147.4	4142.9	4116.3	4042.5	3835.1
47.5°	4460.3	4486.8	4567.8	4570.4	4636.1	4593.8	4462.9	4447.0	4453.2	4456.2	4263.6
50°	4680.5	4709.5	4842.5	4905.2	5060.1	5069.3	4859.8	4845.5	4869.5	4939.8	4763.0
52.5°	4856.3	4893.0	5059.0	5252.7	5518.2	5593.6	5348.5	5337.8	5355.7	5476.9	5327.6
55°	4985.2	5025.0	5205.9	5558.5	5982.4	6115.4	5911.0	5900.9	5912.1	6066.5	5941.7
57.5°	5015.3	5025.0	5287.4	5764.3	6374.3	6693.8	6599.5	6579.1	6524.1	6658.6	6619.4
60°	4874.0	4912.8	5220.1	5836.7	6677.4	7264.0	7319.0	7293.6	7139.1	7249.2	7217.6
62.5°	4587.7	4657.0	4968.9	5726.6	6796.2	7729.7	8024.8	7994.2	7728.2	7799.6	7647.7
65°	4120.0	4149.5	4477.1	5347.0	6645.4	8027.9	8654.1	8638.8	8304.0	8192.4	7727.2
67.5°	3283.1	3338.8	3616.9	4553.6	6028.2	7992.7	9140.7	9139.2	8680.1	8338.2	7445.4
69°	2593.7	2651.3	2916.3	3751.0	5334.2	7671.1	9222.3	9240.1	8786.1	8249.5	7042.9
70°	2067.8	2134.6	2316.6	3159.3	4718.2	7247.2	9154.5	9186.6	8765.7	8103.3	6671.4
72.5°	880.0	934.1	1063.5	1628.6	2875.5	5411.7	8370.2	8491.5	8293.3	7416.3	5513.6
75°	384.3	401.0	459.6	664.0	1276.5	2945.4	6557.3	6781.4	7091.2	6268.8	4107.2
77.5°	281.3	288.4	320.5	389.9	572.8	1112.4	4216.7	4347.2	5114.1	4561.7	2519.4
80°	217.6	222.6	247.7	286.4	374.0	449.9	1923.2	2035.2	2875.5	2343.0	1049.2
82.5°	173.3	176.8	194.1	211.0	258.3	272.7	638.5	708.3	1061.4	647.1	277.7
85°	161.1	165.1	171.2	153.9	165.6	160.0	276.2	289.0	320.5	254.3	116.2
87.5°	72.8	86.1	169.7	119.7	88.1	70.3	113.1	118.2	133.0	133.5	51.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1933.8	1933.8	1933.8	1933.8	1933.8	1933.8	1933.8	1933.8	1933.8	1933.8	1933.8
2.5°	1938.5	1936.9	1939.5	1933.3	1941.0	1940.5	1937.9	1938.9	1944.0	1943.5	1944.0
5°	1950.1	1949.2	1952.2	1947.6	1956.8	1959.8	1960.3	1964.9	1970.5	1972.1	1972.1
7.5°	1979.7	1979.7	1981.2	1975.1	1981.2	1980.7	1978.1	1982.8	1988.4	1988.9	1988.4
10°	2030.7	2031.1	2028.6	2012.8	2007.8	1994.0	1981.2	1981.8	1988.9	1994.4	1996.0
12.5°	2094.9	2092.8	2081.6	2052.6	2031.1	2003.1	1989.9	1989.4	1996.5	2001.1	2002.6
15°	2168.3	2162.7	2133.6	2086.2	2048.5	2021.0	1999.6	1994.4	1990.4	1985.3	1985.8
17.5°	2237.6	2224.8	2176.4	2110.7	2070.9	2034.2	1993.0	1959.8	1936.9	1923.6	1919.5
20°	2307.9	2282.9	2213.1	2133.6	2083.1	2016.4	1936.9	1869.6	1827.9	1808.5	1804.9
22.5°	2372.1	2331.8	2247.3	2157.6	2073.4	1956.2	1831.4	1733.6	1675.5	1649.5	1651.5
25°	2434.8	2378.7	2282.9	2174.3	2024.5	1850.2	1684.6	1564.4	1497.1	1468.1	1467.1
27.5°	2489.7	2426.1	2321.6	2160.6	1933.3	1699.4	1510.9	1393.7	1337.6	1312.6	1308.5
30°	2553.0	2485.7	2373.1	2108.1	1799.8	1525.1	1341.2	1258.6	1218.9	1194.0	1189.3
32.5°	2629.9	2566.7	2415.4	2012.8	1629.1	1343.2	1208.7	1151.1	1115.0	1086.9	1081.8
35°	2742.0	2673.7	2426.1	1876.2	1441.6	1199.6	1111.4	1052.3	1003.4	967.1	963.6
37.5°	2882.7	2807.8	2401.6	1699.4	1259.6	1106.3	1030.4	957.5	893.8	842.9	834.7
40°	3085.5	2972.4	2333.9	1495.6	1125.7	1034.5	951.4	868.3	789.3	729.7	718.0
42.5°	3329.1	3165.5	2229.9	1292.8	1027.3	961.5	872.9	769.9	694.6	652.3	646.1
45°	3638.9	3366.2	2085.7	1115.4	930.5	888.7	788.3	693.5	646.7	615.6	610.4
47.5°	3992.5	3591.5	1934.4	971.2	848.5	820.4	720.6	659.3	622.2	597.8	593.1
50°	4427.2	3845.8	1773.9	853.0	765.9	738.3	688.4	640.5	611.0	592.1	587.5
52.5°	4917.4	4132.6	1658.2	759.8	697.6	677.7	671.6	630.4	606.4	592.1	587.5
55°	5445.4	4424.7	1533.3	681.3	638.5	644.1	660.4	631.4	615.1	597.8	591.1
57.5°	5973.7	4726.3	1394.2	615.1	591.6	619.1	652.7	633.4	619.7	602.8	596.7
60°	6391.6	4917.4	1178.7	559.5	554.5	591.6	634.4	618.1	600.3	600.8	599.7
62.5°	6586.8	4907.2	940.7	510.1	517.2	554.5	604.9	594.1	579.4	599.3	600.8
65°	6477.2	4662.6	732.3	465.2	477.5	515.7	574.3	582.4	587.5	625.7	630.8
67.5°	6017.6	4186.7	567.1	426.0	441.3	489.2	577.4	634.4	641.1	681.3	680.8
69°	5542.1	3740.3	492.8	405.6	423.5	495.9	617.1	667.5	642.6	685.3	679.3
70°	5143.6	3387.1	453.0	391.9	415.3	507.5	643.6	667.0	634.9	671.6	661.4
72.5°	3961.4	2436.7	384.3	366.4	387.8	485.6	651.2	652.3	617.1	624.2	606.9
75°	2717.0	1539.9	335.3	331.7	346.0	437.7	626.7	623.2	570.8	560.5	546.3
77.5°	1498.1	782.2	284.9	298.7	308.2	387.8	569.7	564.6	521.3	499.9	494.8
80°	577.8	342.4	240.5	265.5	271.6	335.8	499.4	494.8	458.6	431.1	423.5
82.5°	218.1	179.4	198.7	229.8	227.8	277.2	422.9	420.4	385.2	345.0	332.7
85°	100.9	107.5	157.4	189.6	174.8	205.3	338.3	342.9	300.1	252.3	252.3
87.5°	42.8	60.1	111.6	143.2	117.7	138.6	248.2	237.0	217.6	150.8	141.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)