

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: P191241

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-SL4-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14271.2 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

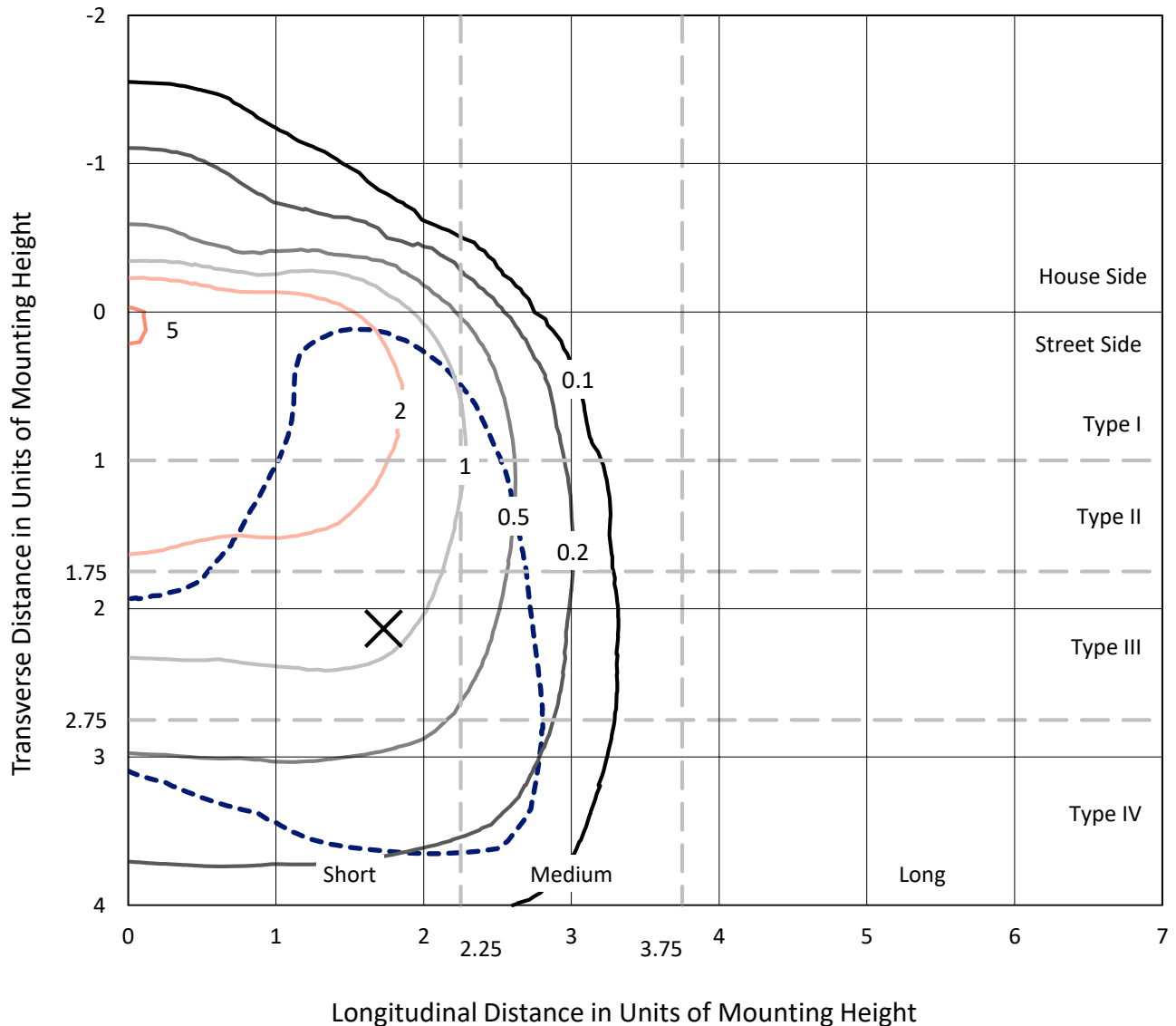
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

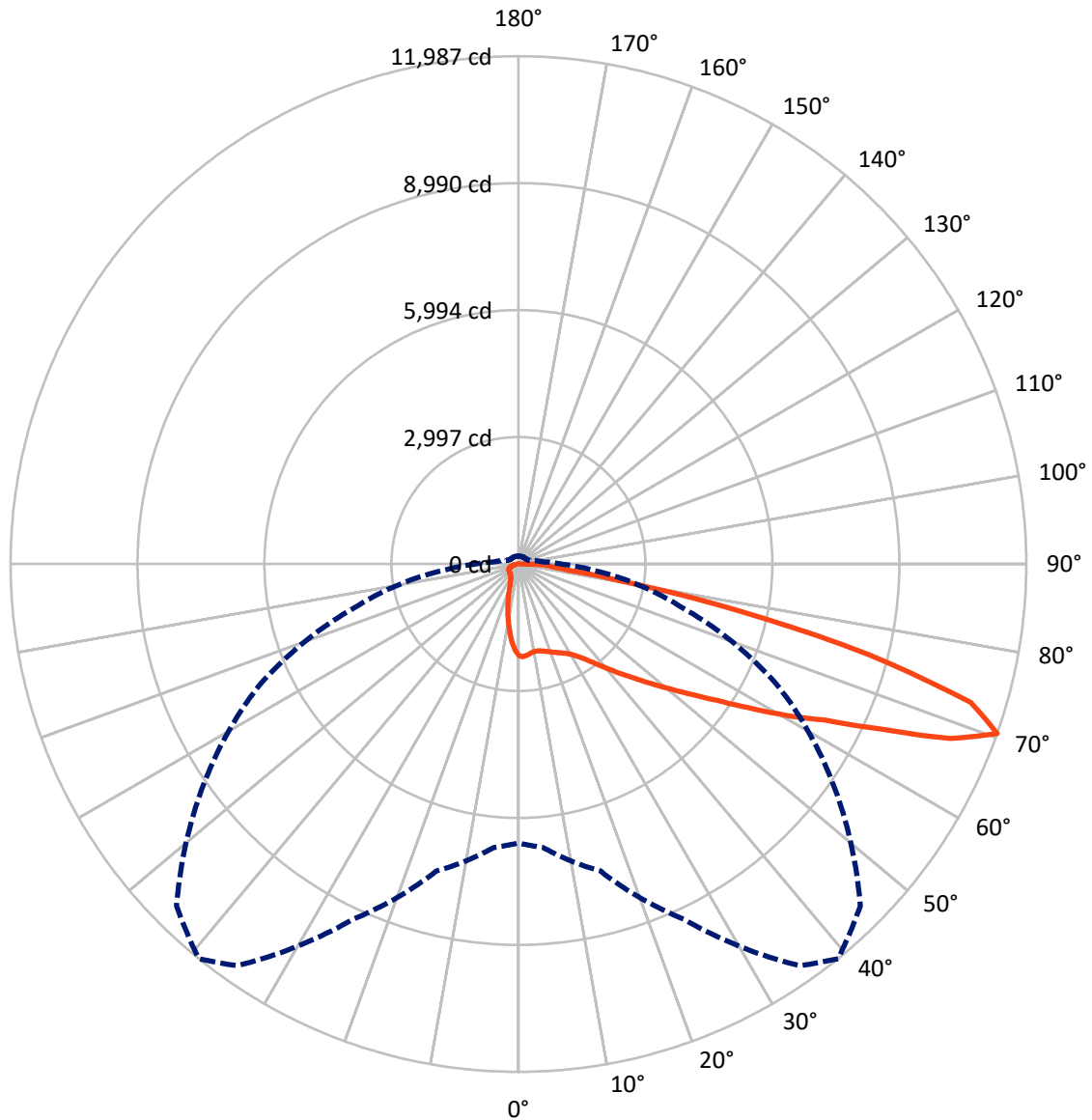
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1623.1	0.0	1623.1
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	12648.1	0.0	12648.1
	% Fixture	88.6	0.0	88.6
Total	Lumens	14271.2	0.0	14271.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.9	1.3
10°-20°	464.8	3.3
20°-30°	723.7	5.1
30°-40°	1127.3	7.9
40°-50°	1892.6	13.3
50°-60°	3006.5	21.1
60°-70°	4010.4	28.1
70°-80°	2421.8	17.0
80°-90°	438.3	3.1
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°	14271.2	100.0
0°-180°	14271.2	100.0



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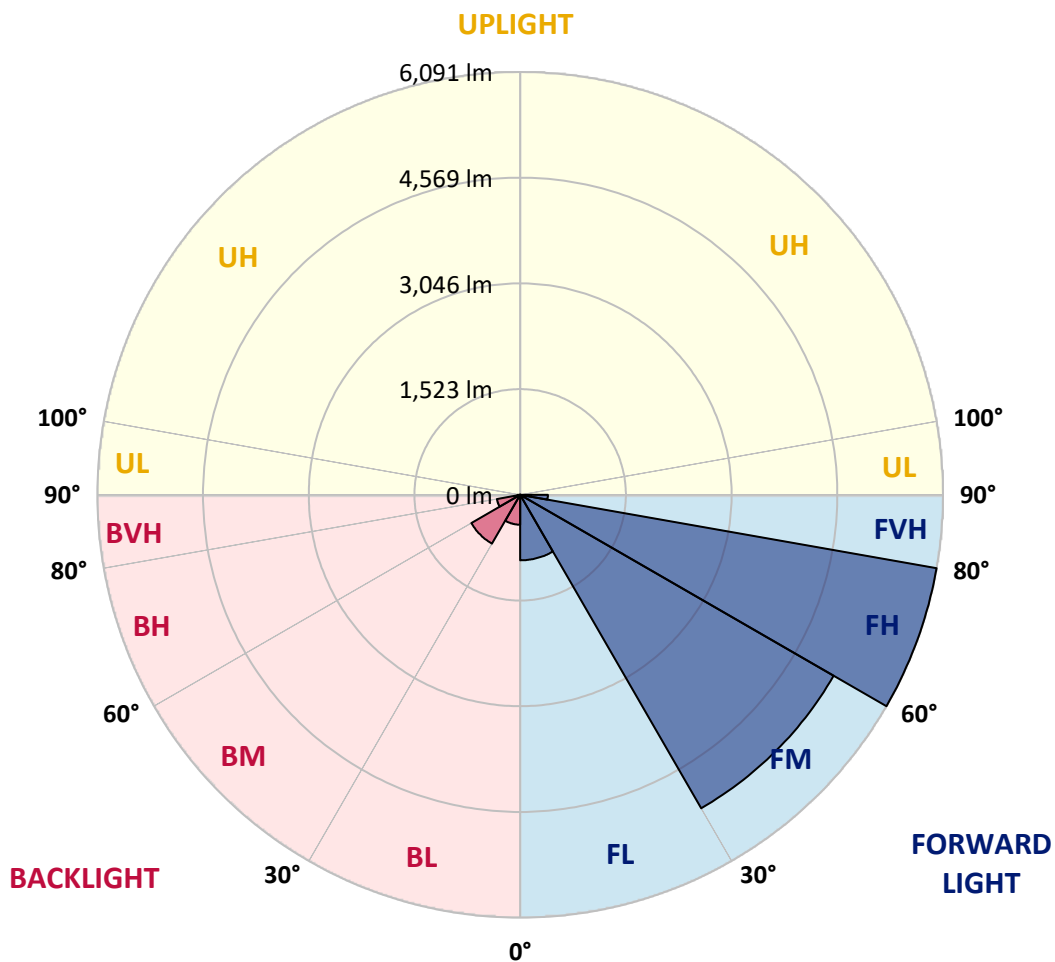
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	943.8	6.6			
FM	(30°-60°)	5214.1	36.5			
FH	(60°-80°)	6091.4	42.7			G3/7500
FVH	(80°-90°)	398.8	2.8			G3/500
BL	(0°-30°)	430.6	3.0	B1/500		
BM	(30°-60°)	812.3	5.7	B1/1000		
BH	(60°-80°)	340.8	2.4	B1/500		G1/500
BVH	(80°-90°)	39.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2166.6	2166.6	2166.6	2166.6	2166.6	2166.6	2166.6	2166.6	2166.6	2166.6	2166.6
2.5°	2208.7	2207.9	2202.1	2197.8	2194.1	2192.7	2195.7	2184.7	2175.3	2163.6	2151.4
5°	2192.0	2191.3	2181.9	2173.2	2164.5	2161.5	2160.8	2141.2	2129.6	2112.2	2089.0
7.5°	2173.9	2170.2	2157.9	2143.4	2128.1	2120.9	2113.6	2088.3	2075.2	2057.8	2030.9
10°	2154.9	2150.7	2139.0	2124.5	2110.0	2099.1	2086.8	2062.1	2048.4	2035.3	2004.1
12.5°	2135.4	2131.7	2128.9	2122.3	2112.2	2102.8	2093.3	2072.3	2057.8	2042.5	2006.2
15°	2132.4	2131.0	2137.6	2142.0	2136.1	2130.3	2120.2	2102.1	2086.8	2071.6	2024.4
17.5°	2155.7	2154.9	2171.6	2183.3	2180.4	2170.2	2156.4	2136.1	2123.7	2110.8	2051.9
20°	2206.5	2210.1	2230.4	2245.7	2231.2	2216.6	2194.1	2165.9	2159.3	2153.5	2080.3
22.5°	2302.3	2305.9	2320.5	2326.2	2288.4	2267.5	2236.3	2200.0	2195.7	2200.0	2114.3
25°	2451.7	2448.1	2446.0	2424.2	2355.2	2322.6	2282.7	2245.0	2247.1	2266.8	2162.2
27.5°	2649.9	2630.2	2599.7	2534.5	2424.9	2388.6	2340.0	2305.2	2318.9	2356.7	2234.0
30°	2855.2	2833.4	2763.0	2656.4	2516.4	2476.5	2422.0	2382.9	2419.1	2478.6	2329.9
32.5°	3045.2	3042.4	2939.3	2802.2	2642.6	2607.7	2553.3	2509.1	2567.8	2658.5	2473.5
35°	3252.8	3259.3	3136.0	2971.3	2813.1	2776.8	2737.6	2704.3	2782.6	2907.4	2681.8
37.5°	3474.9	3487.9	3342.0	3156.3	3007.6	2992.3	2969.1	2954.6	3075.7	3248.4	2972.7
40°	3771.6	3758.5	3556.1	3365.2	3246.2	3245.5	3238.3	3255.6	3457.4	3694.0	3346.4
42.5°	4089.3	4050.9	3783.2	3589.4	3508.2	3532.9	3547.4	3618.5	3916.7	4235.2	3802.0
45°	4431.8	4345.5	4019.0	3826.8	3799.1	3851.4	3900.7	4055.3	4457.2	4851.2	4301.2
47.5°	4705.4	4622.0	4262.8	4075.6	4135.8	4214.9	4310.0	4554.5	5062.4	5487.6	4794.0
50°	4920.9	4866.5	4508.8	4365.9	4506.6	4628.4	4783.7	5119.7	5692.2	6107.2	5250.3
52.5°	5129.9	5089.2	4756.9	4663.3	4942.0	5110.3	5321.4	5726.3	6338.0	6716.7	5634.1
55°	5318.5	5289.5	5023.9	5034.0	5454.2	5673.3	5938.8	6417.1	7041.8	7260.2	5959.2
57.5°	5531.1	5494.1	5328.7	5499.2	6112.3	6396.7	6742.1	7193.4	7702.0	7743.4	6206.7
60°	5745.2	5713.2	5666.8	6036.1	6948.2	7247.1	7574.3	7945.9	8371.7	8118.5	6192.1
62.5°	5930.9	5934.5	6016.5	6599.9	7766.7	8112.7	8511.8	8878.9	8977.6	8183.8	5734.3
65°	6245.8	6303.1	6547.6	7398.1	8918.8	9381.8	9871.6	9812.8	9145.3	7573.6	4752.5
67.5°	6620.2	6721.1	7216.6	8461.7	10375.1	10989.7	11179.0	10023.9	8474.0	6156.5	3387.7
70°	6582.5	6721.1	7505.4	9254.8	11575.2	11987.3	11412.7	9071.9	6729.1	4021.9	1799.5
72.5°	5845.2	6043.4	6917.0	8891.3	11197.2	11160.9	9907.8	6763.1	3998.0	1615.1	703.1
75°	4455.1	4655.3	5407.0	7024.4	8850.0	8545.2	7030.1	3736.0	1517.2	641.4	443.3
77.5°	2562.8	2718.0	3298.5	4307.7	5614.6	5301.9	3913.1	1661.6	738.7	446.9	346.1
80°	1430.8	1517.2	1869.9	2185.4	2751.4	2522.1	1750.8	1032.5	551.5	324.4	267.0
82.5°	1131.2	1208.1	1512.1	1378.6	1256.7	1159.5	1005.7	919.3	440.4	204.6	159.6
85°	988.3	1061.5	1279.9	1085.5	858.4	787.3	817.0	904.8	342.5	123.4	136.4
87.5°	915.6	1013.6	1140.6	836.6	668.3	592.1	753.9	991.9	110.3	76.9	55.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2166.6	2166.6	2166.6	2166.6	2166.6	2166.6	2166.6	2166.6	2166.6	2166.6	2166.6
2.5°	2140.4	2128.9	2110.0	2093.3	2067.2	2053.4	2038.1	2027.3	2018.6	2011.3	2022.9
5°	2074.4	2052.7	2012.8	1970.0	1919.2	1879.3	1845.9	1814.7	1792.9	1778.4	1788.5
7.5°	2012.0	1976.4	1914.0	1836.4	1749.3	1675.4	1614.4	1560.7	1523.7	1499.7	1509.2
10°	1976.4	1932.3	1835.7	1713.9	1585.4	1470.0	1374.2	1291.6	1234.2	1201.6	1206.7
12.5°	1967.7	1910.5	1777.0	1609.3	1433.8	1273.4	1138.4	1023.8	943.3	901.2	902.7
15°	1974.3	1901.1	1721.8	1509.2	1287.2	1084.7	916.4	777.1	683.5	635.6	634.8
17.5°	1985.2	1893.8	1663.7	1401.1	1138.4	903.4	715.5	579.0	496.3	457.9	454.9
20°	1996.8	1882.1	1598.5	1284.3	983.9	735.0	560.2	453.5	401.2	380.2	378.8
22.5°	2013.5	1872.0	1530.9	1160.9	832.3	598.6	460.7	388.9	361.3	350.5	349.0
25°	2040.4	1866.9	1459.1	1032.5	695.8	500.6	401.2	357.0	341.1	333.8	333.1
27.5°	2085.3	1874.1	1391.6	907.7	584.8	434.7	367.9	341.1	329.4	322.8	322.1
30°	2143.4	1896.7	1320.5	789.4	498.5	389.6	347.6	330.1	320.7	314.1	314.1
32.5°	2239.9	1934.4	1245.9	687.1	436.8	358.4	332.4	320.7	312.7	307.6	306.9
35°	2382.0	2005.5	1176.2	602.2	392.5	335.9	319.3	310.6	304.7	301.9	301.9
37.5°	2588.9	2118.0	1114.5	541.2	365.7	320.7	306.9	300.4	296.8	296.8	296.8
40°	2866.8	2273.2	1064.4	500.6	350.5	309.9	297.5	292.4	290.2	290.9	290.9
42.5°	3210.0	2474.9	1031.0	472.4	343.2	303.3	290.9	286.6	284.4	283.7	284.4
45°	3601.1	2704.3	1027.5	451.3	335.9	298.9	286.6	282.2	277.9	275.0	275.0
47.5°	3981.2	2937.2	1057.2	444.1	328.0	293.9	282.9	278.7	272.1	265.6	265.6
50°	4317.3	3135.2	1097.1	446.9	325.1	286.6	277.2	275.0	264.8	257.6	256.9
52.5°	4584.3	3287.7	1129.7	455.6	328.0	281.5	270.0	270.7	259.7	251.7	251.0
55°	4798.3	3387.7	1121.1	464.4	334.5	278.7	263.4	264.8	256.1	248.2	248.2
57.5°	4891.9	3350.8	1024.5	457.2	339.6	279.4	258.3	264.1	256.9	249.6	249.6
60°	4690.8	3022.0	843.8	425.2	333.1	277.2	256.1	267.0	266.3	259.0	258.3
62.5°	4082.8	2433.6	654.5	378.0	310.6	266.3	250.3	266.3	274.3	272.1	271.4
65°	3146.8	1733.4	499.9	327.2	280.1	248.2	235.1	249.6	260.4	263.4	262.7
67.5°	2042.5	1062.2	385.2	279.4	246.0	227.1	215.5	222.0	224.2	224.2	222.8
70°	1004.2	571.7	306.9	235.1	211.1	204.6	198.0	194.5	190.8	187.9	187.9
72.5°	495.6	373.7	252.5	198.8	182.1	179.2	177.8	173.4	170.5	166.8	165.4
75°	366.4	304.0	214.8	167.6	156.7	153.9	156.7	153.1	152.4	149.5	148.0
77.5°	301.2	259.0	185.1	143.6	134.2	129.2	133.5	134.2	134.9	130.6	129.2
80°	244.5	219.1	154.6	119.0	110.3	106.7	109.6	115.4	116.8	110.3	107.4
82.5°	176.4	179.2	124.8	92.9	85.6	82.8	88.5	95.7	97.2	87.8	85.6
85°	148.0	149.5	95.7	66.0	58.8	54.4	63.8	71.1	76.2	66.8	64.5
87.5°	61.7	87.8	55.1	37.0	32.6	28.3	34.1	37.7	45.7	42.0	41.3
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)