

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: P322680

Luminaire Tested: **GLEON-SA6B-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322680
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6B-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17843 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

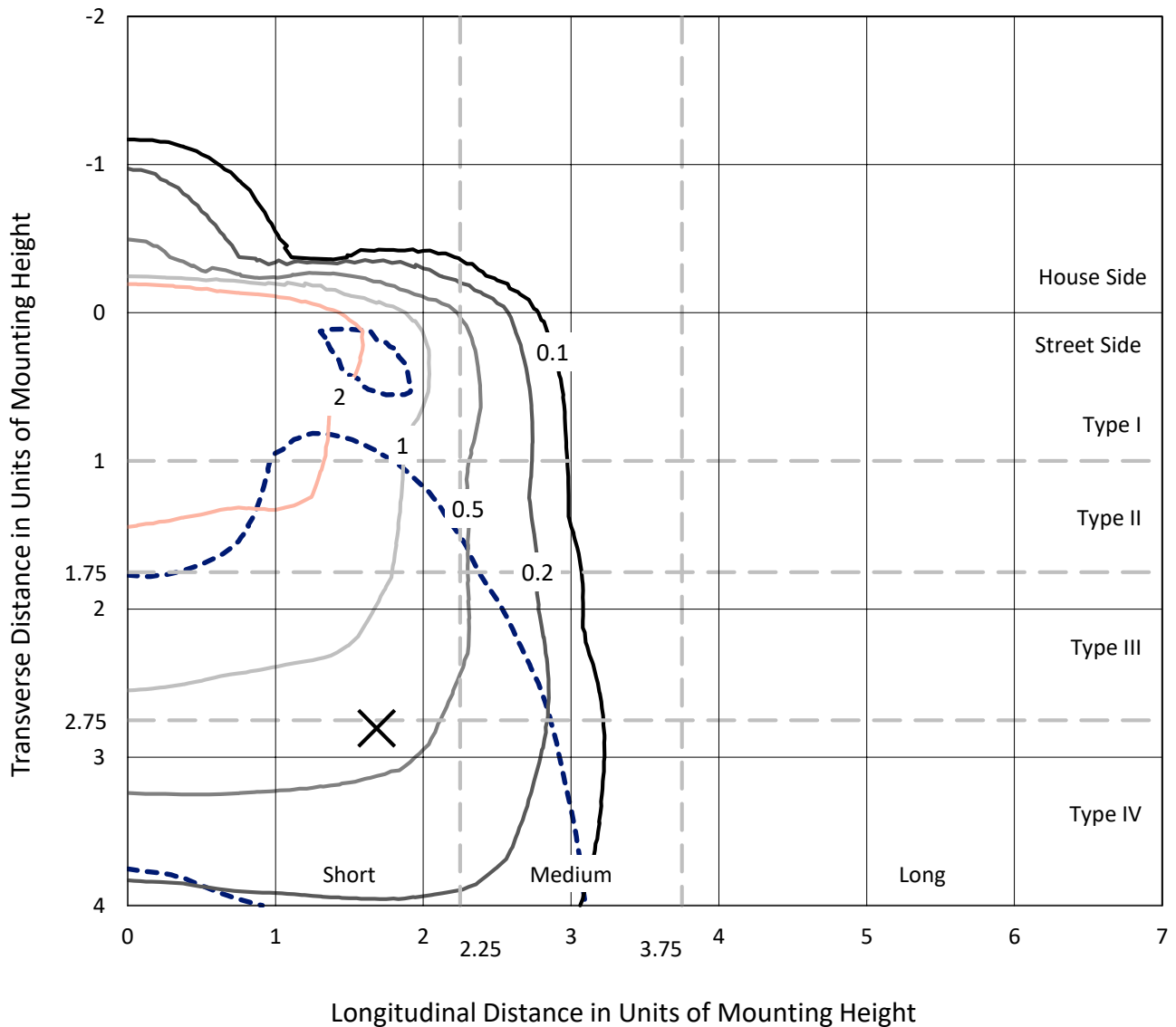
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

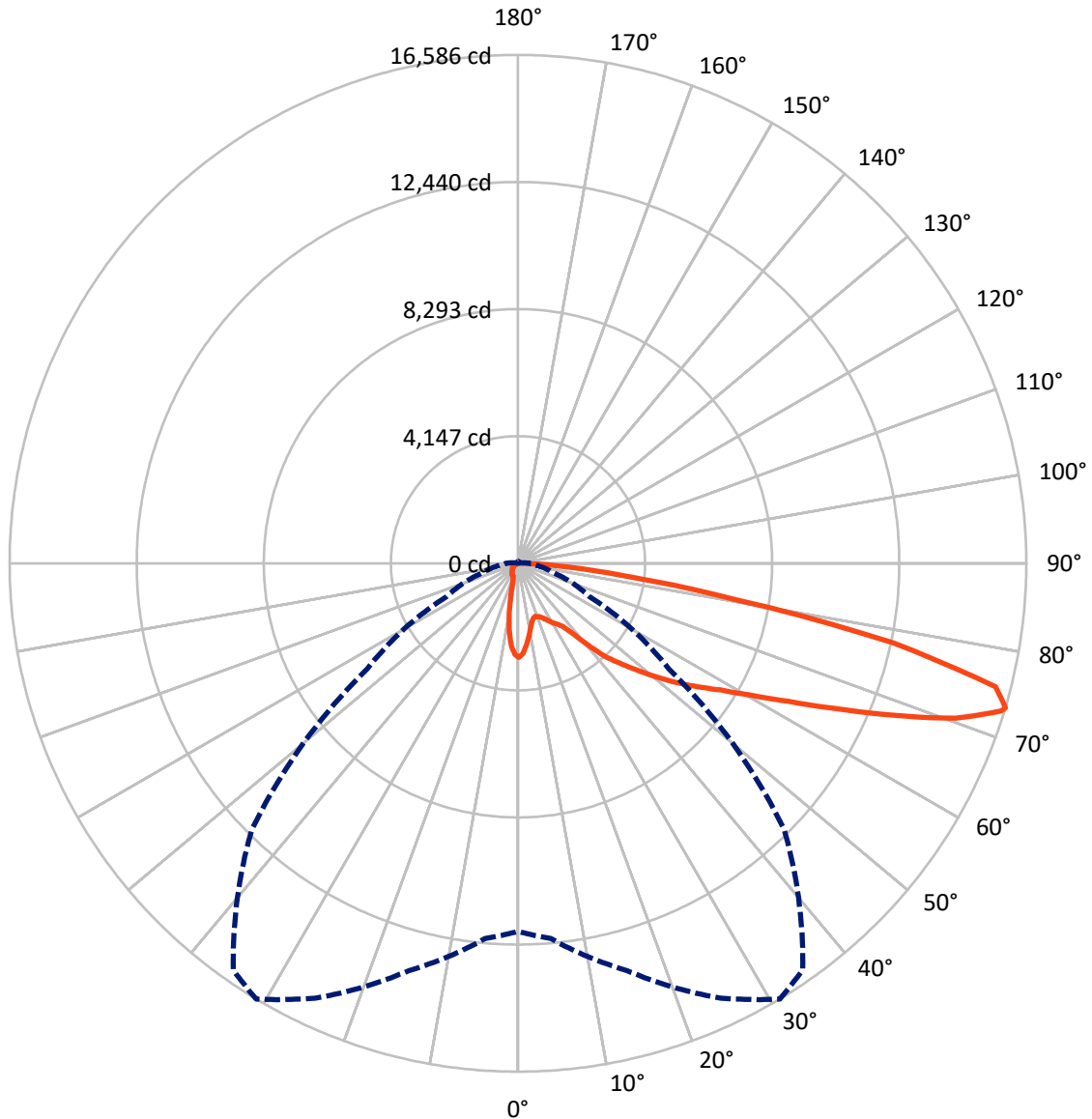
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1626.5	0.0	1626.5
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	16216.5	0.0	16216.5
	% Fixture	90.9	0.0	90.9
Total	Lumens	17843.0	0.0	17843.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.5	1.4
10°-20°	552.7	3.1
20°-30°	828.1	4.6
30°-40°	1317.5	7.4
40°-50°	2352.6	13.2
50°-60°	3650.6	20.5
60°-70°	4853.0	27.2
70°-80°	3650.4	20.5
80°-90°	383.6	2.1
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°	17843.0	100.0
0°-180°	17843.0	100.0

Coefficient of Utilization

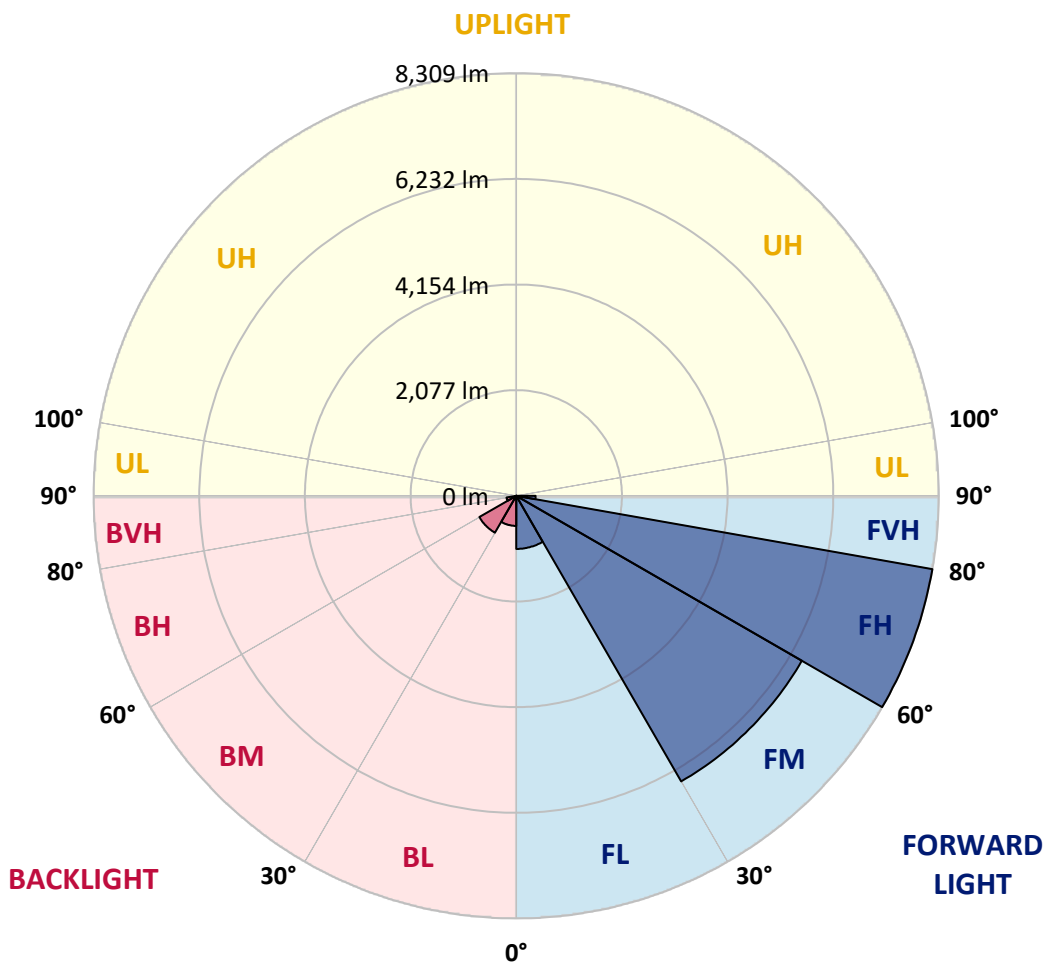


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1043.8	5.9			
FM (30°-60°)	6483.5	36.3			
FH (60°-80°)	8308.8	46.6			G4/12000
FVH (80°-90°)	380.4	2.1			G3/500
BL (0°-30°)	591.4	3.3	B2/1000		
BM (30°-60°)	837.2	4.7	B1/1000		
BH (60°-80°)	194.6	1.1	B1/500		G1/500
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	3069.9	3069.9	3069.9	3069.9	3069.9	3069.9	3069.9	3069.9	3069.9	3069.9	3069.9
2.5°	2909.3	2921.5	2934.6	2937.2	2959.0	2959.9	2991.3	3014.9	3038.5	3061.2	3069.1
5°	2610.7	2630.7	2654.3	2677.9	2724.2	2742.5	2819.3	2897.9	2973.0	3044.6	3079.5
7.5°	2292.0	2314.7	2347.8	2406.3	2457.9	2493.7	2615.0	2754.7	2894.4	3026.3	3102.2
10°	2001.2	2022.2	2057.1	2119.1	2198.5	2247.4	2410.7	2604.5	2809.7	3009.7	3136.3
12.5°	1816.1	1827.5	1846.7	1913.0	1984.6	2039.6	2231.7	2471.8	2739.9	3008.8	3191.3
15°	1782.1	1785.6	1769.8	1799.5	1855.4	1908.7	2103.4	2364.4	2686.6	3022.8	3262.9
17.5°	1836.2	1834.4	1782.1	1778.6	1823.1	1866.8	2040.5	2290.2	2649.1	3055.1	3355.4
20°	1918.3	1912.2	1821.3	1804.8	1851.9	1892.9	2036.1	2262.3	2635.1	3109.2	3468.1
22.5°	2027.4	2016.9	1874.6	1857.1	1907.8	1950.6	2090.3	2289.3	2647.3	3181.7	3599.0
25°	2162.7	2147.0	1966.3	1947.1	1998.6	2041.4	2187.2	2367.1	2684.0	3269.9	3764.9
27.5°	2315.5	2292.8	2113.0	2063.2	2121.7	2166.2	2316.4	2485.8	2741.6	3363.3	3968.4
30°	2459.6	2429.9	2267.5	2185.4	2257.0	2306.8	2456.1	2627.2	2834.2	3507.4	4246.9
32.5°	2604.5	2571.4	2405.5	2307.7	2372.3	2426.4	2600.2	2822.0	3007.9	3727.4	4617.1
35°	2938.1	2903.2	2699.7	2538.2	2537.3	2567.9	2801.9	3088.3	3237.6	4033.9	5058.9
37.5°	3499.5	3479.4	3285.6	2979.1	2897.0	2863.0	3076.9	3406.1	3567.6	4455.6	5557.5
40°	4114.2	4096.7	3879.3	3601.7	3476.8	3393.0	3471.6	3848.8	4033.9	4970.7	6066.5
42.5°	4808.3	4725.4	4337.7	4254.8	4143.0	4079.3	4008.5	4394.5	4606.6	5531.3	6571.2
45°	5438.7	5299.0	4796.1	4670.4	4645.1	4660.8	4700.1	5127.9	5251.0	6197.5	7074.1
47.5°	5814.2	5704.2	5318.2	5197.7	5190.8	5294.7	5591.5	5956.5	5892.8	6778.1	7516.8
50°	6171.3	6071.7	5751.3	5781.0	5813.3	5954.7	6603.5	6808.7	6478.6	7304.6	7922.8
52.5°	6460.3	6308.4	6140.7	6307.5	6466.4	6694.3	7647.7	7573.5	6894.2	7723.7	8270.3
55°	6627.1	6558.1	6639.3	6806.9	7105.5	7475.7	8633.5	8210.0	7198.1	8106.1	8501.7
57.5°	7238.2	7102.9	7264.4	7409.4	7798.8	8316.6	9477.8	8684.1	7417.2	8342.8	8554.9
60°	7977.8	7868.6	7963.8	8204.8	8730.4	9339.0	10267.1	9070.9	7531.6	8494.7	8417.0
62.5°	9154.8	9010.7	8951.3	9221.1	9917.9	10582.3	10866.1	9339.0	7506.3	8427.4	7943.7
65°	10731.6	10582.3	10316.9	10561.4	11447.6	11916.5	11535.8	9395.8	7331.7	7883.5	6747.5
67.5°	12346.9	12238.7	12011.6	12423.8	13223.6	13374.6	12243.9	9257.8	6769.4	6392.2	4767.3
70°	13413.9	13367.6	13515.2	14426.7	15140.1	15096.4	12893.5	8516.5	5276.3	3930.8	2358.3
72.5°	12644.7	12866.4	13956.1	15608.9	16480.3	16124.1	12560.0	6539.7	3015.8	1512.3	681.9
73°	12007.3	12291.0	13757.9	15653.5	16586.0	16195.7	12279.7	6002.8	2570.5	1193.6	516.9
75°	8353.2	8701.6	11390.0	14578.6	16091.8	15430.8	10235.7	3674.1	1190.9	529.1	208.7
77.5°	4055.7	4313.3	6271.7	10533.4	12514.6	12056.2	6372.1	1369.1	537.8	330.9	96.0
80°	1514.0	1683.4	2722.4	5361.0	7232.1	7421.6	2802.7	517.8	358.0	266.3	48.9
82.5°	396.4	441.8	1004.1	2390.6	3706.4	3879.3	883.6	261.1	261.9	219.2	29.7
85°	126.6	144.9	313.5	1073.1	1746.3	1533.2	230.5	126.6	190.3	163.3	16.6
87.5°	15.7	20.1	99.5	252.3	385.1	213.9	35.8	37.5	81.2	90.8	9.6
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°	3069.9	3069.9	3069.9	3069.9	3069.9	3069.9	3069.9	3069.9	3069.9	3069.9	3069.9
2.5°	3076.9	3072.5	3073.4	3050.7	3035.9	3006.2	2975.6	2961.7	2946.8	2940.7	2946.8
5°	3092.6	3084.8	3062.1	2992.2	2918.0	2822.0	2732.0	2663.9	2578.4	2554.8	2579.2
7.5°	3117.1	3101.4	3035.0	2892.7	2727.7	2544.3	2338.2	2188.1	2065.0	1985.5	2014.3
10°	3152.9	3123.2	2989.6	2747.7	2452.6	2127.8	1835.3	1607.4	1445.9	1379.5	1376.9
12.5°	3213.1	3157.2	2933.7	2559.1	2116.5	1683.4	1300.1	1053.0	922.0	837.3	835.6
15°	3279.5	3197.4	2863.0	2333.0	1725.3	1205.8	837.3	649.6	564.9	537.8	534.4
17.5°	3360.7	3243.7	2771.3	2054.5	1315.8	798.9	546.6	492.4	489.0	486.3	486.3
20°	3462.8	3298.7	2653.4	1735.8	933.4	533.5	464.5	468.0	469.7	466.3	467.1
22.5°	3581.6	3354.6	2512.9	1393.5	631.3	446.2	444.4	448.8	450.5	448.8	449.7
25°	3719.5	3419.2	2341.7	1034.7	455.8	423.5	427.8	433.9	438.3	438.3	438.3
27.5°	3890.7	3497.8	2135.7	722.1	393.8	399.9	412.1	423.5	429.6	431.3	431.3
30°	4113.3	3595.5	1888.6	495.1	358.0	368.5	391.2	413.0	424.3	426.1	427.0
32.5°	4394.5	3705.6	1602.2	365.8	327.4	335.3	359.7	396.4	418.2	421.7	421.7
35°	4716.6	3833.0	1294.0	318.7	305.6	308.2	327.4	369.3	407.8	417.4	418.2
37.5°	5069.4	3958.8	984.0	297.7	287.3	287.3	301.2	337.0	382.4	412.1	415.6
40°	5398.6	4034.7	689.8	281.1	270.7	270.7	282.9	309.1	351.9	396.4	406.0
42.5°	5702.4	4060.9	480.2	265.4	255.0	257.6	268.1	289.0	321.3	365.8	374.6
45°	6015.0	4056.6	350.1	247.1	239.2	247.1	255.0	270.7	294.2	319.6	321.3
47.5°	6250.7	4019.9	277.7	229.6	224.4	234.9	241.9	252.3	265.4	263.7	263.7
50°	6471.6	3930.8	223.5	206.1	209.6	221.8	225.3	228.8	229.6	213.0	211.3
52.5°	6639.3	3792.0	179.0	180.7	194.7	206.9	203.4	198.2	189.5	169.4	165.9
55°	6695.2	3524.8	140.6	149.3	172.9	188.6	175.5	164.1	147.6	131.0	127.5
57.5°	6593.9	3179.9	114.4	116.1	145.8	158.9	144.1	131.0	112.6	98.7	96.0
60°	6379.1	2796.6	94.3	87.3	112.6	124.0	114.4	101.3	84.7	74.2	73.3
62.5°	5953.0	2388.0	77.7	68.1	85.6	95.2	89.1	79.5	65.5	58.5	57.6
65°	5057.2	1910.4	62.9	55.0	66.4	74.2	69.0	62.0	51.5	46.3	45.4
67.5°	3530.1	1291.4	51.5	45.4	52.4	58.5	54.1	50.6	41.0	40.2	41.0
70°	1702.6	622.5	42.8	36.7	41.0	45.4	43.7	41.0	39.3	45.4	52.4
72.5°	488.1	208.7	34.1	30.6	33.2	35.8	37.5	36.7	42.8	55.0	63.7
73°	375.4	168.5	32.3	28.8	31.4	34.9	36.7	35.8	43.7	55.9	63.7
75°	160.7	81.2	24.4	23.6	26.2	30.6	32.3	32.3	43.7	56.8	61.1
77.5°	72.5	43.7	15.7	18.3	22.7	24.4	27.1	27.1	34.9	43.7	43.7
80°	41.0	23.6	12.2	14.0	16.6	16.6	16.6	14.8	15.7	17.5	19.2
82.5°	26.2	15.7	9.6	11.4	10.5	8.7	7.0	7.0	6.1	7.0	8.7
85°	14.8	8.7	8.7	7.0	4.4	3.5	4.4	3.5	0.9	0.0	0.9
87.5°	8.7	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)