

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: P322351

Luminaire Tested: **GLEON-SA7A-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7A-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17658 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

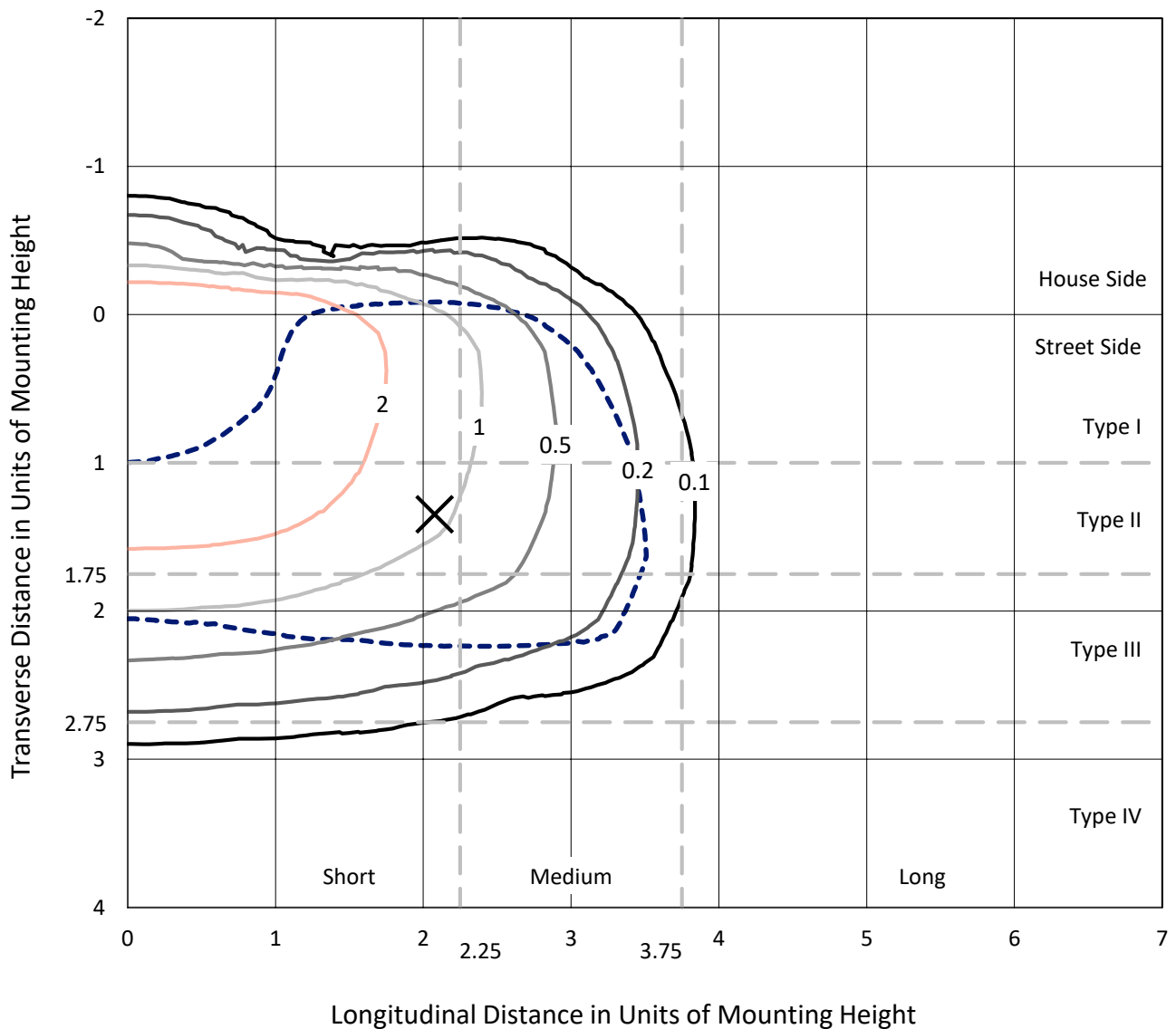
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

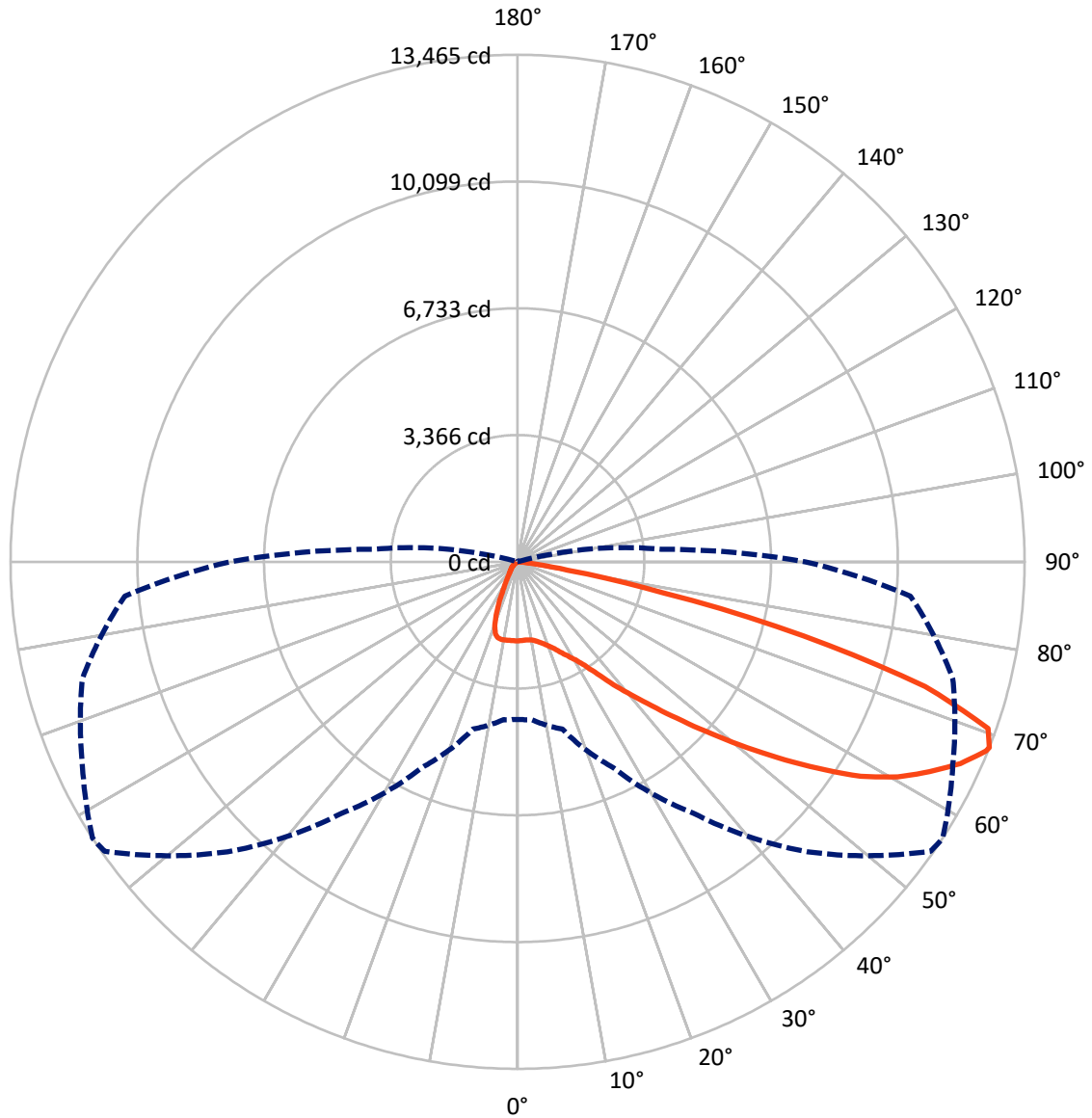
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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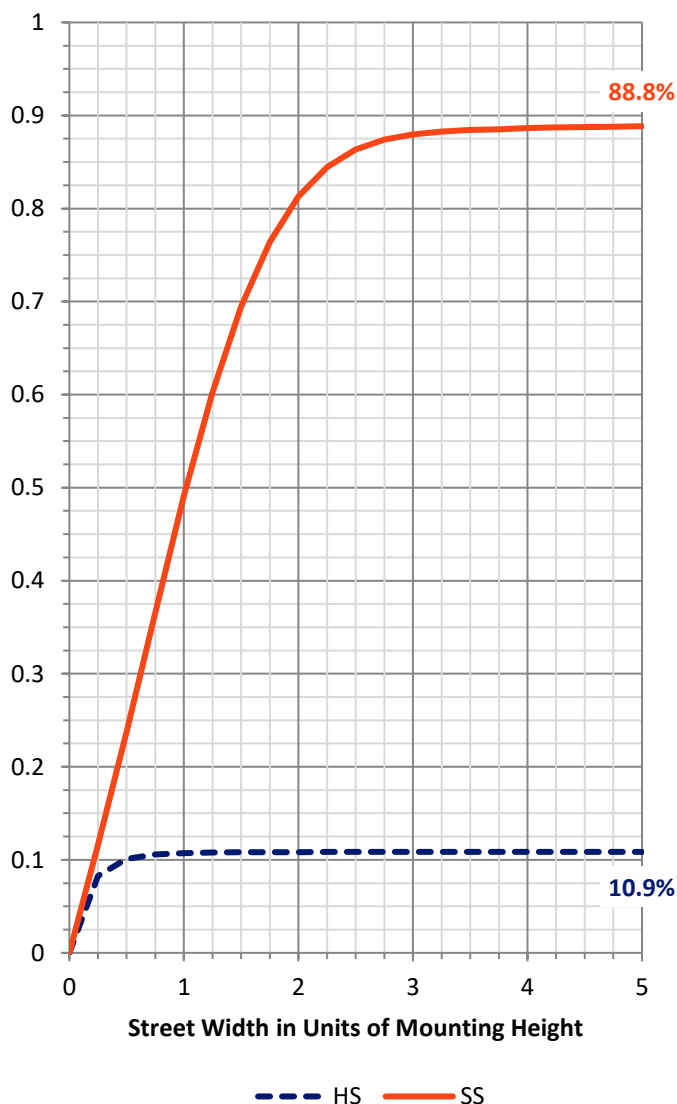
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1936.3	0.0	1936.3
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	15721.7	0.0	15721.7
	% Fixture	89.0	0.0	89.0
Total	Lumens	17658.0	0.0	17658.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.4	1.1
10°-20°	544.1	3.1
20°-30°	938.7	5.3
30°-40°	1620.1	9.2
40°-50°	2771.3	15.7
50°-60°	4433.8	25.1
60°-70°	5122.8	29.0
70°-80°	1957.5	11.1
80°-90°	73.4	0.4
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°	17658.0	100.0
0°-180°	17658.0	100.0

Coefficient of Utilization

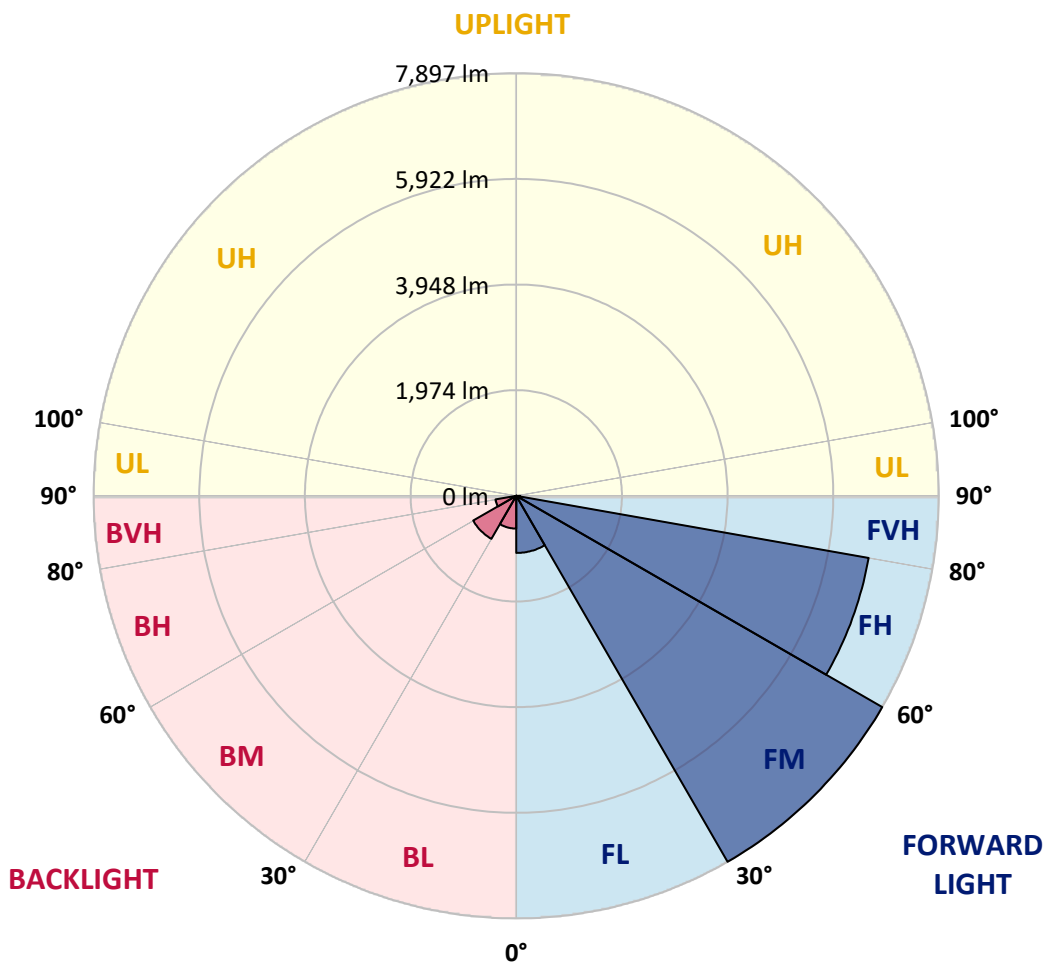


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1067.3	6.0			
FM (30°-60°)	7896.5	44.7			
FH (60°-80°)	6685.9	37.9			G3/7500
FVH (80°-90°)	72.0	0.4			G1/100
BL (0°-30°)	611.9	3.5	B2/1000		
BM (30°-60°)	928.7	5.3	B1/1000		
BH (60°-80°)	394.3	2.2	B1/500		G1/500
BVH (80°-90°)	1.3	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-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2098.2	2098.2	2098.2	2098.2	2098.2	2098.2	2098.2	2098.2	2098.2	2098.2	2098.2
2.5°	2049.0	2058.2	2064.8	2069.0	2074.0	2084.9	2088.2	2093.2	2095.7	2095.7	2101.6
5°	1968.0	1978.0	1992.2	2003.9	2027.3	2057.3	2079.0	2087.4	2102.4	2115.8	2123.3
7.5°	1892.8	1904.5	1921.2	1948.8	1988.9	2037.3	2082.4	2094.1	2123.3	2151.7	2165.9
10°	1844.4	1853.6	1875.3	1914.5	1967.1	2034.8	2098.2	2112.4	2162.5	2210.1	2236.8
12.5°	1827.7	1836.1	1858.6	1902.9	1968.0	2047.3	2135.0	2155.8	2229.3	2298.6	2336.2
15°	1851.9	1853.6	1877.8	1919.6	1983.8	2078.2	2195.9	2221.0	2313.7	2403.8	2450.6
17.5°	1945.4	1937.9	1950.4	1968.8	2019.8	2119.1	2260.2	2297.8	2421.4	2527.4	2571.7
20°	2179.2	2179.2	2150.8	2100.7	2101.6	2182.6	2347.1	2389.6	2540.8	2663.5	2703.6
22.5°	2579.2	2571.7	2514.9	2392.1	2279.4	2291.9	2453.1	2508.2	2684.4	2815.5	2828.8
25°	3060.1	3050.9	2963.2	2790.4	2595.0	2469.0	2596.7	2660.2	2855.5	2971.6	2944.0
27.5°	3569.4	3561.9	3475.1	3260.5	2982.5	2751.2	2767.9	2828.0	3030.0	3144.4	3056.8
30°	4062.9	4065.4	3979.4	3759.0	3444.2	3111.0	2985.0	3020.0	3199.5	3315.6	3190.4
32.5°	4532.1	4535.5	4461.2	4214.8	3920.9	3529.3	3285.5	3276.4	3396.6	3511.0	3367.4
35°	4950.4	4958.8	4907.9	4716.6	4405.2	3995.2	3675.5	3653.8	3676.3	3805.7	3638.7
37.5°	5353.7	5358.7	5320.3	5159.2	4898.7	4507.1	4168.1	4137.2	4088.8	4188.1	3996.9
40°	5795.4	5782.9	5738.6	5592.5	5368.7	5072.3	4697.4	4644.0	4559.7	4648.2	4467.8
42.5°	6206.2	6192.0	6199.5	6034.2	5845.5	5653.5	5314.5	5222.6	5173.4	5275.2	5045.6
45°	6719.7	6712.2	6737.2	6593.6	6440.8	6301.4	6021.7	5921.5	5899.8	6019.2	5744.5
47.5°	7226.5	7244.9	7322.5	7261.6	7199.8	7077.1	6770.6	6725.5	6738.9	6883.3	6481.7
50°	7649.0	7670.7	7883.6	7953.8	8043.1	7971.3	7664.0	7636.5	7689.1	7819.3	7274.9
52.5°	7954.6	7998.8	8263.5	8586.7	8912.3	8960.7	8654.3	8629.2	8700.2	8720.2	7887.8
55°	8166.7	8205.9	8505.7	9096.8	9759.8	9968.5	9778.1	9681.3	9667.9	9470.0	8532.4
57.5°	8204.2	8200.1	8630.9	9426.6	10424.4	10962.9	10842.7	10747.5	10473.6	10163.0	9271.3
60°	7992.2	8016.4	8516.5	9541.0	10841.9	11715.2	11724.4	11600.8	11174.2	10836.9	9987.7
62.5°	7339.2	7437.8	7942.9	9241.3	10836.9	12018.3	12370.7	12276.3	11766.2	11388.8	10714.1
65°	6280.5	6315.6	6797.3	8214.3	10104.6	11891.4	12952.6	12917.6	12299.7	11924.8	11087.3
67.5°	4586.4	4510.4	5016.4	6468.4	8554.9	11151.6	13370.1	13414.3	12711.3	12035.0	10689.9
68°	4185.6	4208.2	4602.3	6036.7	8149.1	10890.3	13397.6	13465.3	12752.2	11963.2	10472.8
70°	2494.8	2538.3	2889.8	4156.4	6199.5	9411.6	13100.4	13254.9	12508.4	11222.6	9058.4
72.5°	637.1	688.8	1021.1	1860.3	3541.0	6631.2	11058.9	11320.3	10860.2	9104.3	6115.2
75°	262.2	275.5	364.9	612.9	1319.2	2987.5	7289.1	7848.6	7528.8	5450.6	2763.7
77.5°	181.2	190.4	234.6	339.8	571.1	1012.8	3573.6	3977.7	3583.6	1860.3	602.8
80°	130.3	137.8	167.8	226.3	328.1	361.5	1164.8	1346.8	1069.6	408.3	149.5
82.5°	77.7	83.5	125.2	161.1	199.6	172.8	289.7	329.0	309.8	202.9	66.8
85°	38.4	45.1	84.3	115.2	107.7	72.6	88.5	98.5	121.9	123.6	35.9
87.5°	2.5	5.0	49.3	69.3	30.1	16.7	25.9	31.7	43.4	61.0	15.0
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°	2098.2	2098.2	2098.2	2098.2	2098.2	2098.2	2098.2	2098.2	2098.2	2098.2	2098.2
2.5°	2104.1	2104.9	2099.1	2096.6	2098.2	2088.2	2084.0	2085.7	2085.7	2088.2	2084.0
5°	2125.0	2125.0	2114.9	2101.6	2094.1	2074.9	2062.3	2059.0	2056.5	2054.8	2051.5
7.5°	2170.0	2165.0	2147.5	2118.3	2093.2	2051.5	2019.8	2003.1	1994.7	1991.4	1988.9
10°	2242.7	2233.5	2204.3	2150.0	2092.4	2018.1	1948.8	1899.5	1858.6	1841.9	1831.9
12.5°	2340.4	2327.0	2277.8	2187.6	2086.5	1949.6	1799.3	1654.9	1520.4	1465.3	1437.8
15°	2453.1	2433.9	2356.2	2219.3	2052.3	1795.1	1468.7	1215.7	1029.5	959.4	929.3
17.5°	2567.5	2542.4	2424.7	2239.3	1949.6	1475.4	1030.3	778.2	653.8	620.4	608.7
20°	2682.7	2646.0	2484.0	2224.3	1717.5	1063.7	679.7	568.6	532.7	522.7	519.3
22.5°	2792.1	2735.3	2537.4	2165.9	1360.1	713.9	537.7	502.6	491.0	485.1	483.4
25°	2887.3	2807.9	2584.2	1985.5	962.7	539.4	484.3	472.6	457.6	446.7	447.5
27.5°	2976.6	2880.6	2612.6	1688.3	642.1	460.9	448.4	432.5	405.0	389.1	389.1
30°	3084.3	2977.4	2633.4	1299.2	472.6	407.5	397.4	373.2	335.7	314.8	314.8
32.5°	3246.3	3124.4	2620.1	911.8	391.6	358.2	334.8	301.4	260.5	240.5	239.6
35°	3494.3	3351.5	2524.9	597.8	345.7	311.4	273.9	233.0	197.0	180.3	179.5
37.5°	3828.3	3655.4	2311.1	427.5	309.8	268.0	222.9	177.8	151.1	140.3	139.4
40°	4261.6	4008.6	2005.6	346.5	276.4	226.3	172.0	137.8	119.4	111.0	111.9
42.5°	4781.8	4386.8	1639.0	298.9	243.8	186.2	134.4	108.5	96.9	91.0	89.3
45°	5359.6	4760.1	1254.9	266.3	211.2	150.3	105.2	86.0	76.8	73.5	73.5
47.5°	5995.0	5123.3	918.4	238.0	176.2	116.1	84.3	70.1	62.6	60.1	59.3
50°	6571.9	5375.4	662.1	207.9	144.4	91.8	68.5	58.4	53.4	50.1	50.1
52.5°	7052.8	5454.7	487.6	175.3	116.9	73.5	56.8	50.1	45.1	42.6	42.6
55°	7476.2	5422.2	362.4	144.4	94.3	60.1	48.4	42.6	38.4	35.9	35.9
57.5°	7882.0	5317.0	270.5	117.7	76.0	48.4	40.9	35.9	31.7	30.1	30.1
60°	8213.4	5141.6	201.2	95.2	61.0	39.2	34.2	29.2	25.9	23.4	23.4
62.5°	8482.3	4947.9	147.8	78.5	48.4	30.9	26.7	24.2	19.2	16.7	16.7
65°	8484.0	4626.5	111.0	65.1	37.6	24.2	20.0	19.2	12.5	10.0	9.2
67.5°	7870.3	3988.6	85.2	55.9	29.2	18.4	15.0	15.9	6.7	4.2	3.3
68°	7647.3	3826.6	80.2	55.1	27.6	17.5	14.2	15.9	5.8	3.3	2.5
70°	6447.5	3044.2	64.3	53.4	24.2	13.4	11.7	15.9	5.0	2.5	1.7
72.5°	4123.8	1766.8	47.6	42.6	18.4	10.0	7.5	14.2	5.0	1.7	0.8
75°	1755.1	547.7	32.6	30.1	10.9	7.5	5.0	9.2	3.3	0.8	0.0
77.5°	369.9	123.6	19.2	18.4	7.5	5.0	3.3	2.5	0.8	0.0	0.0
80°	95.2	35.9	10.0	9.2	4.2	2.5	1.7	0.0	0.0	0.0	0.0
82.5°	30.1	14.2	5.8	4.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.0	8.3	3.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.3	2.5	0.8	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)