

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: P322360

Luminaire Tested: **GLEON-SA6B-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322360
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-SA6B-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA 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: 18310 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

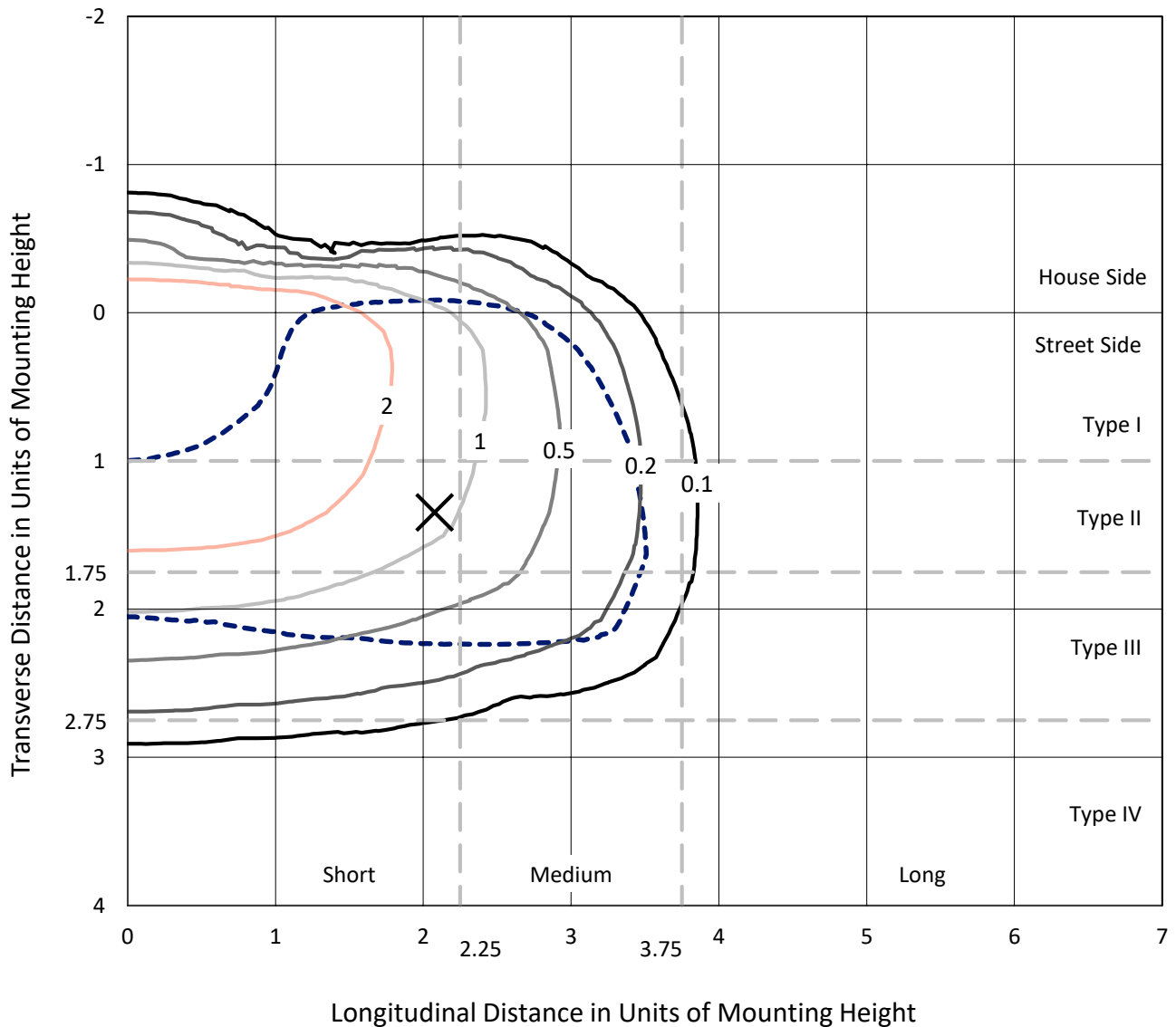
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

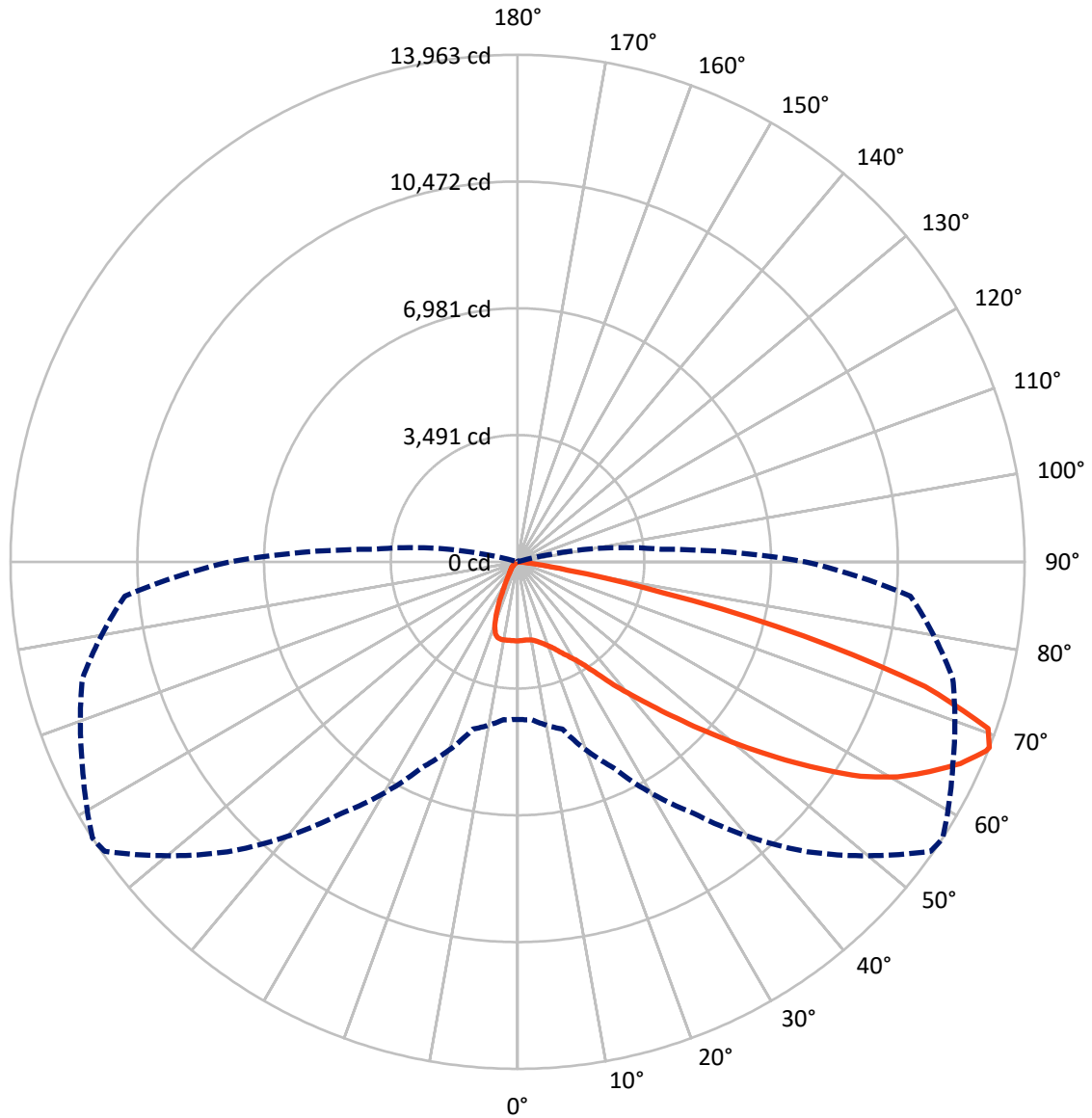
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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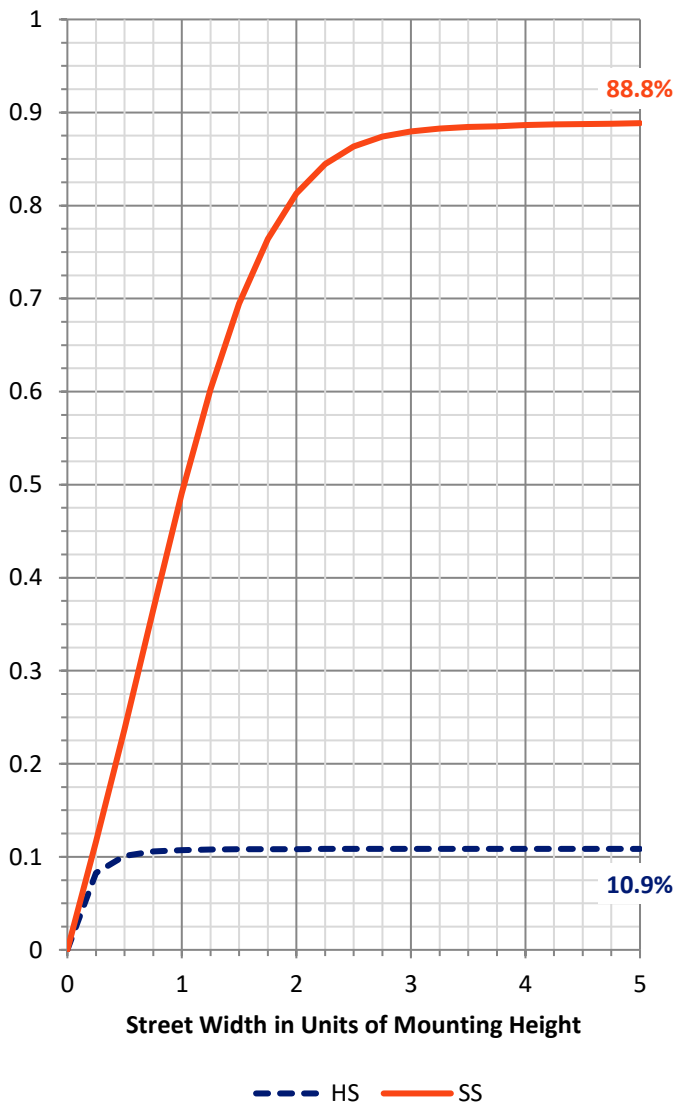
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2007.8	0.0	2007.8
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	16302.2	0.0	16302.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	18310.0	0.0	18310.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.6	1.1
10°-20°	564.2	3.1
20°-30°	973.4	5.3
30°-40°	1680.0	9.2
40°-50°	2873.6	15.7
50°-60°	4597.5	25.1
60°-70°	5311.9	29.0
70°-80°	2029.8	11.1
80°-90°	76.1	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°	18310.0	100.0
0°-180°	18310.0	100.0

Coefficient of Utilization



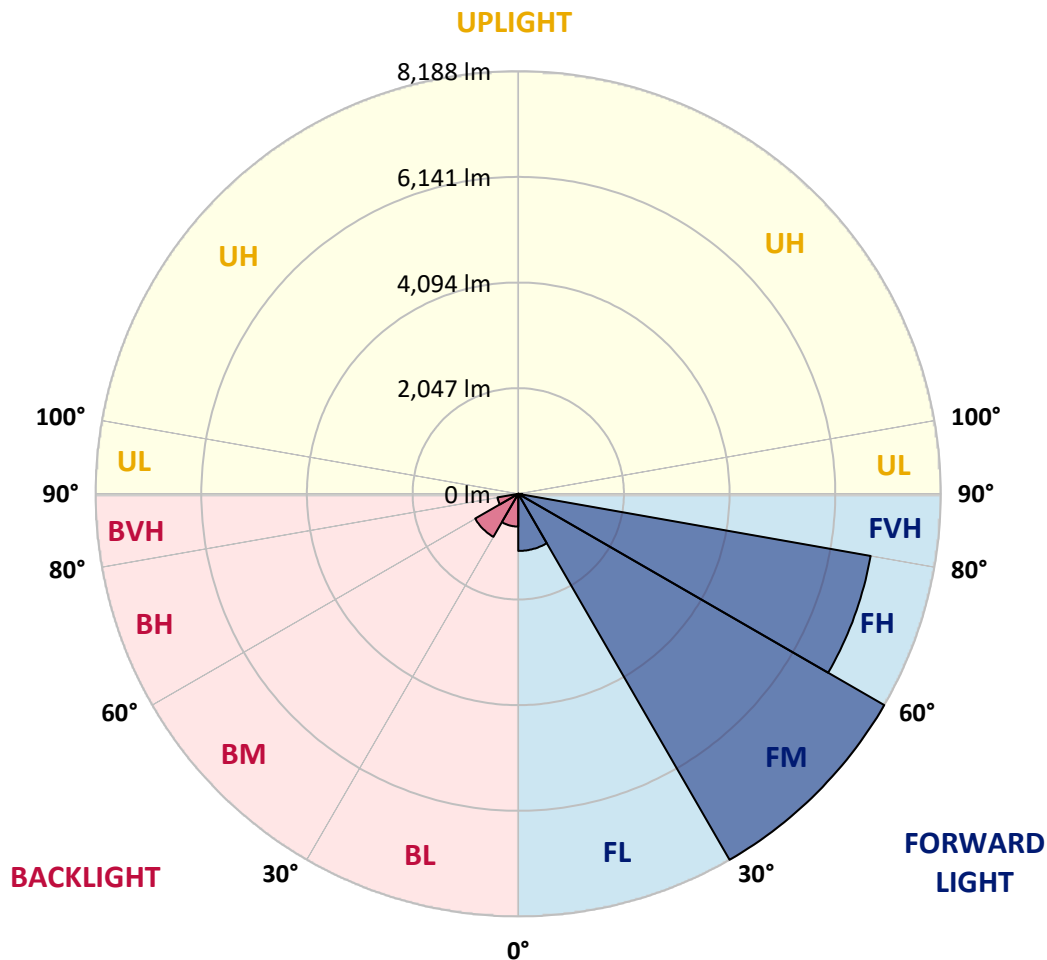
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1106.7	6.0			
FM (30°-60°)	8188.1	44.7			
FH (60°-80°)	6932.8	37.9			G3/7500
FVH (80°-90°)	74.7	0.4			G1/100
BL (0°-30°)	634.5	3.5	B2/1000		
BM (30°-60°)	963.0	5.3	B1/1000		
BH (60°-80°)	408.9	2.2	B1/500		G1/500
BVH (80°-90°)	1.4	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°	2175.7	2175.7	2175.7	2175.7	2175.7	2175.7	2175.7	2175.7	2175.7	2175.7	2175.7
2.5°	2124.6	2134.2	2141.1	2145.4	2150.6	2161.9	2165.3	2170.5	2173.1	2173.1	2179.2
5°	2040.6	2051.0	2065.8	2077.9	2102.1	2133.3	2155.8	2164.5	2180.0	2193.9	2201.7
7.5°	1962.7	1974.8	1992.2	2020.7	2062.3	2112.5	2159.3	2171.4	2201.7	2231.1	2245.8
10°	1912.5	1922.0	1944.5	1985.2	2039.8	2109.9	2175.7	2190.4	2242.4	2291.7	2319.4
12.5°	1895.2	1903.9	1927.2	1973.1	2040.6	2122.9	2213.8	2235.4	2311.6	2383.5	2422.5
15°	1920.3	1922.0	1947.1	1990.4	2057.1	2154.9	2277.0	2303.0	2399.1	2492.6	2541.1
17.5°	2017.3	2009.5	2022.5	2041.5	2094.3	2197.4	2343.7	2382.6	2510.8	2620.7	2666.6
20°	2259.7	2259.7	2230.3	2178.3	2179.2	2263.2	2433.7	2477.9	2634.6	2761.8	2803.4
22.5°	2674.4	2666.6	2607.7	2480.5	2363.6	2376.6	2543.7	2600.8	2783.5	2919.4	2933.3
25°	3173.1	3163.6	3072.7	2893.4	2690.9	2560.1	2692.6	2758.4	2961.0	3081.3	3052.7
27.5°	3701.2	3693.4	3603.4	3380.9	3092.6	2852.8	2870.1	2932.4	3141.9	3260.5	3169.6
30°	4212.9	4215.5	4126.3	3897.8	3571.4	3225.9	3095.2	3131.5	3317.7	3438.0	3308.2
32.5°	4699.5	4702.9	4625.9	4370.5	4065.7	3659.7	3406.9	3397.3	3522.0	3640.6	3491.7
35°	5133.2	5141.9	5089.1	4890.8	4567.9	4142.8	3811.2	3788.7	3812.0	3946.2	3773.1
37.5°	5551.4	5556.6	5516.8	5349.7	5079.5	4673.5	4322.0	4290.0	4239.7	4342.8	4144.5
40°	6009.4	5996.4	5950.5	5799.0	5567.0	5259.6	4870.9	4815.5	4728.0	4819.8	4632.8
42.5°	6435.4	6420.6	6428.4	6257.0	6061.3	5862.2	5510.7	5415.5	5364.4	5470.0	5231.9
45°	6967.8	6960.0	6986.0	6837.1	6678.6	6534.1	6244.0	6140.1	6117.6	6241.4	5956.6
47.5°	7493.3	7512.4	7592.9	7529.7	7465.6	7338.4	7020.6	6973.9	6987.7	7137.5	6721.1
50°	7931.4	7953.9	8174.7	8247.4	8340.1	8265.6	7947.0	7918.4	7973.0	8108.1	7543.6
52.5°	8248.3	8294.2	8568.6	8903.7	9241.4	9291.6	8973.8	8947.9	9021.5	9042.2	8179.0
55°	8468.2	8508.9	8819.7	9432.7	10120.1	10336.6	10139.2	10038.7	10024.9	9819.7	8847.4
57.5°	8507.2	8502.8	8949.6	9774.7	10809.3	11367.7	11243.0	11144.3	10860.4	10538.3	9613.6
60°	8287.3	8312.4	8831.0	9893.3	11242.2	12147.8	12157.3	12029.2	11586.8	11237.0	10356.5
62.5°	7610.2	7712.4	8236.2	9582.5	11237.0	12462.1	12827.4	12729.6	12200.6	11809.3	11109.7
65°	6512.4	6548.8	7048.3	8517.6	10477.7	12330.5	13430.9	13394.5	12753.8	12365.1	11496.7
67.5°	4755.7	4677.0	5201.6	6707.2	8870.8	11563.4	13863.8	13909.7	13180.7	12479.4	11084.6
68°	4340.2	4363.5	4772.2	6259.6	8450.0	11292.4	13892.3	13962.5	13223.1	12404.9	10859.5
70°	2587.0	2632.0	2996.5	4309.9	6428.4	9759.1	13584.1	13744.3	12970.3	11637.0	9392.9
72.5°	660.6	714.3	1058.9	1929.0	3671.8	6876.0	11467.3	11738.3	11261.2	9440.5	6341.0
75°	271.9	285.7	378.3	635.5	1367.9	3097.8	7558.3	8138.4	7806.8	5651.8	2865.7
77.5°	187.9	197.4	243.3	352.4	592.2	1050.2	3705.5	4124.6	3715.9	1929.0	625.1
80°	135.1	142.9	174.0	234.6	340.3	374.9	1207.8	1396.5	1109.1	423.4	155.0
82.5°	80.5	86.6	129.9	167.1	206.9	179.2	300.4	341.1	321.2	210.4	69.3
85°	39.8	46.8	87.4	119.5	111.7	75.3	91.8	102.2	126.4	128.1	37.2
87.5°	2.6	5.2	51.1	71.9	31.2	17.3	26.8	32.9	45.0	63.2	15.6
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°	2175.7	2175.7	2175.7	2175.7	2175.7	2175.7	2175.7	2175.7	2175.7	2175.7	2175.7
2.5°	2181.8	2182.6	2176.6	2174.0	2175.7	2165.3	2161.0	2162.7	2162.7	2165.3	2161.0
5°	2203.4	2203.4	2193.0	2179.2	2171.4	2151.5	2138.5	2135.0	2132.4	2130.7	2127.2
7.5°	2250.2	2245.0	2226.8	2196.5	2170.5	2127.2	2094.3	2077.0	2068.4	2064.9	2062.3
10°	2325.5	2316.0	2285.7	2229.4	2169.7	2092.6	2020.7	1969.7	1927.2	1909.9	1899.5
12.5°	2426.8	2412.9	2361.9	2268.3	2163.6	2021.6	1865.8	1716.0	1576.6	1519.4	1490.9
15°	2543.7	2523.8	2443.2	2301.2	2128.1	1861.4	1522.9	1260.6	1067.5	994.8	963.6
17.5°	2662.3	2636.3	2514.2	2322.0	2021.6	1529.8	1068.4	806.9	677.9	643.3	631.2
20°	2781.8	2743.7	2575.7	2306.4	1780.9	1103.0	704.7	589.6	552.4	542.0	538.5
22.5°	2895.2	2836.3	2631.1	2245.8	1410.4	740.2	557.6	521.2	509.1	503.0	501.3
25°	2993.9	2911.6	2679.6	2058.8	998.2	559.3	502.2	490.0	474.4	463.2	464.1
27.5°	3086.5	2986.9	2709.0	1750.6	665.8	477.9	464.9	448.5	419.9	403.5	403.5
30°	3198.2	3087.4	2730.7	1347.2	490.0	422.5	412.1	387.0	348.0	326.4	326.4
32.5°	3366.2	3239.8	2716.8	945.4	406.1	371.4	347.2	312.5	270.1	249.3	248.5
35°	3623.3	3475.2	2618.1	619.9	358.4	322.9	284.0	241.6	204.3	187.0	186.1
37.5°	3969.6	3790.4	2396.5	443.3	321.2	277.9	231.2	184.4	156.7	145.5	144.6
40°	4419.0	4156.6	2079.6	359.3	286.6	234.6	178.4	142.9	123.8	115.1	116.0
42.5°	4958.3	4548.8	1699.5	310.0	252.8	193.1	139.4	112.6	100.4	94.4	92.6
45°	5557.5	4935.8	1301.3	276.2	219.0	155.8	109.1	89.2	79.7	76.2	76.2
47.5°	6216.3	5312.4	952.4	246.7	182.7	120.3	87.4	72.7	64.9	62.3	61.5
50°	6814.6	5573.9	686.6	215.6	149.8	95.2	71.0	60.6	55.4	51.9	51.9
52.5°	7313.3	5656.2	505.6	181.8	121.2	76.2	58.9	51.9	46.8	44.2	44.2
55°	7752.2	5622.4	375.7	149.8	97.8	62.3	50.2	44.2	39.8	37.2	37.2
57.5°	8173.0	5513.3	280.5	122.1	78.8	50.2	42.4	37.2	32.9	31.2	31.2
60°	8516.7	5331.5	208.7	98.7	63.2	40.7	35.5	30.3	26.8	24.2	24.2
62.5°	8795.5	5130.6	153.2	81.4	50.2	32.0	27.7	25.1	19.9	17.3	17.3
65°	8797.2	4797.3	115.1	67.5	39.0	25.1	20.8	19.9	13.0	10.4	9.5
67.5°	8160.9	4135.8	88.3	58.0	30.3	19.0	15.6	16.4	6.9	4.3	3.5
68°	7929.7	3967.9	83.1	57.1	28.6	18.2	14.7	16.4	6.1	3.5	2.6
70°	6685.6	3156.6	66.7	55.4	25.1	13.9	12.1	16.4	5.2	2.6	1.7
72.5°	4276.1	1832.0	49.3	44.2	19.0	10.4	7.8	14.7	5.2	1.7	0.9
75°	1819.9	568.0	33.8	31.2	11.3	7.8	5.2	9.5	3.5	0.9	0.0
77.5°	383.5	128.1	19.9	19.0	7.8	5.2	3.5	2.6	0.9	0.0	0.0
80°	98.7	37.2	10.4	9.5	4.3	2.6	1.7	0.0	0.0	0.0	0.0
82.5°	31.2	14.7	6.1	4.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.6	8.7	3.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.7	2.6	0.9	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)