

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: P192624

Luminaire Tested: **GLEON-AF-06-LED-E1-5WQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-5WQ-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29302.2 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - 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: 25 FT

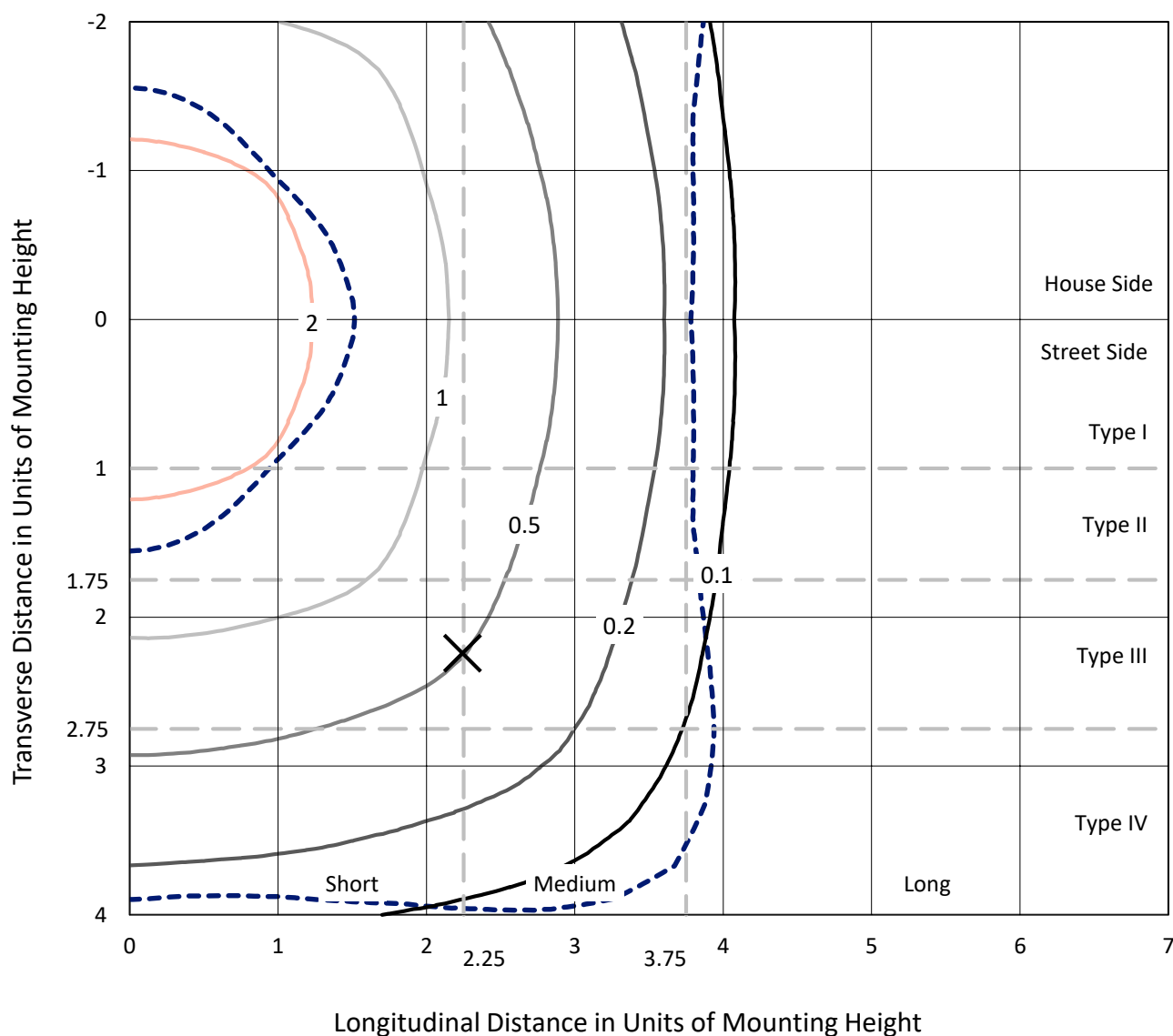


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

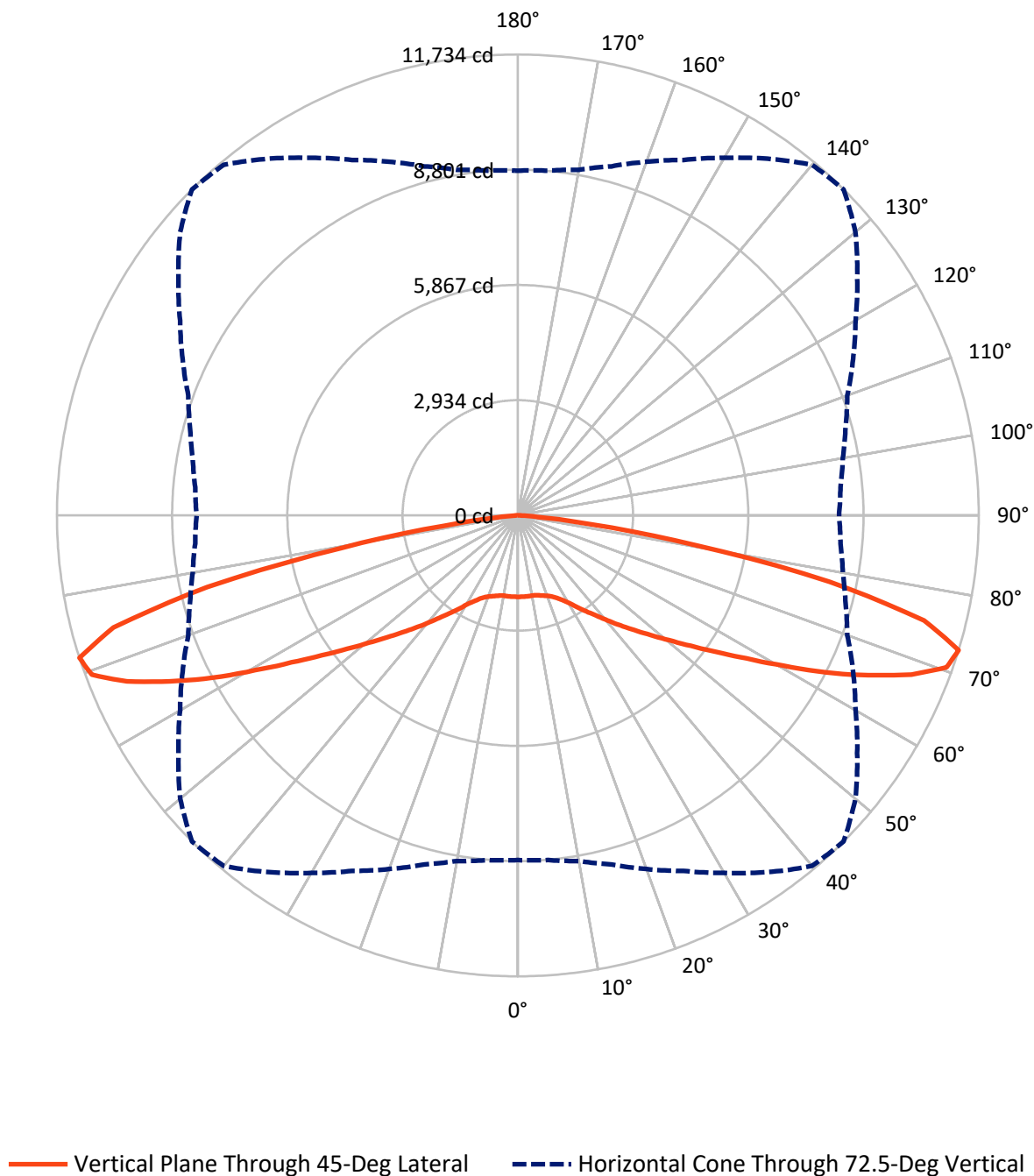


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14651.1	0.0	14651.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14651.1	0.0	14651.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	29302.2	0.0	29302.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.1	0.7
10°-20°	601.8	2.1
20°-30°	1099.7	3.8
30°-40°	1896.1	6.5
40°-50°	3241.3	11.1
50°-60°	5253.8	17.9
60°-70°	8715.8	29.7
70°-80°	7676.6	26.2
80°-90°	618.9	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°	29302.2	100.0
0°-180°	29302.2	100.0

Coefficient of Utilization



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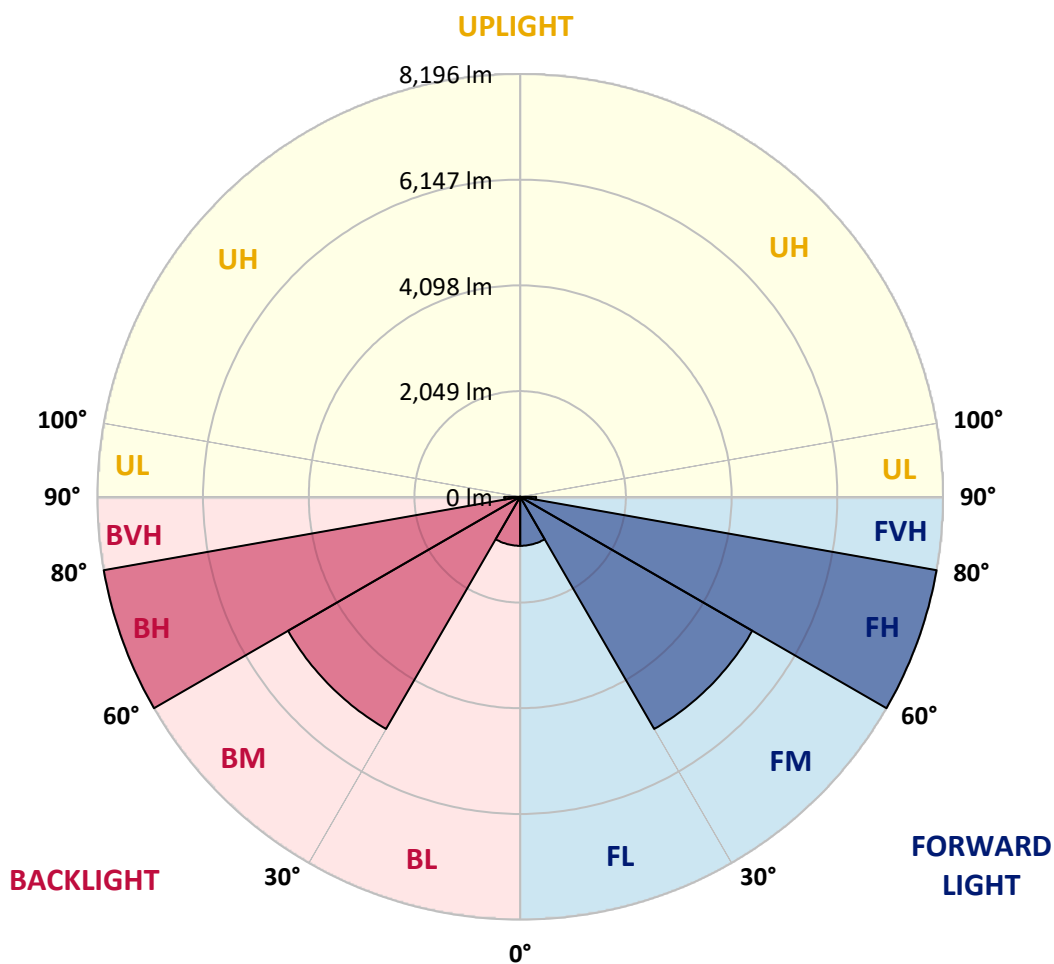
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	949.8	3.2			
FM	(30°-60°)	5195.6	17.7			
FH	(60°-80°)	8196.2	28.0			G4/12000
FVH	(80°-90°)	309.5	1.1			G3/500
BL	(0°-30°)	949.8	3.2	B2/1000		
BM	(30°-60°)	5195.6	17.7	B4/8500		
BH	(60°-80°)	8196.2	28.0	B5		G4/12000
BVH	(80°-90°)	309.5	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1
2.5°	2075.1	2076.4	2077.8	2076.4	2076.4	2075.1	2073.7	2075.1	2073.7	2071.0	2072.3
5°	2081.8	2084.4	2084.4	2081.8	2083.1	2081.8	2079.1	2080.4	2077.8	2073.7	2073.7
7.5°	2089.8	2091.2	2091.2	2088.5	2089.8	2087.2	2084.4	2083.1	2080.4	2075.1	2071.0
10°	2101.9	2103.2	2101.9	2099.2	2099.2	2095.3	2088.5	2085.8	2080.4	2072.3	2068.4
12.5°	2115.4	2116.7	2115.4	2112.6	2111.3	2104.7	2099.2	2095.3	2091.2	2084.4	2077.8
15°	2134.2	2136.9	2134.2	2128.8	2124.8	2119.4	2116.7	2118.1	2119.4	2114.0	2107.3
17.5°	2169.2	2170.4	2166.4	2154.4	2149.0	2143.5	2143.5	2146.3	2150.3	2147.6	2140.9
20°	2233.6	2229.7	2220.1	2205.4	2198.8	2189.3	2187.9	2189.3	2189.3	2187.9	2182.6
22.5°	2314.3	2311.6	2299.5	2280.7	2271.3	2265.9	2257.9	2251.1	2249.7	2245.8	2240.4
25°	2411.1	2409.7	2395.0	2378.8	2372.0	2365.4	2358.6	2349.2	2341.2	2331.7	2326.3
27.5°	2534.7	2529.4	2507.8	2499.8	2490.3	2486.3	2476.9	2466.1	2459.4	2447.3	2440.7
30°	2670.4	2670.4	2653.0	2650.3	2650.3	2640.9	2630.1	2611.3	2599.2	2587.2	2583.1
32.5°	2806.3	2807.5	2790.1	2795.4	2799.4	2806.3	2808.8	2802.2	2794.1	2792.7	2784.7
35°	3002.3	2997.0	2979.5	2983.6	2982.2	2980.9	2980.9	2995.7	2998.3	3001.1	2984.9
37.5°	3245.6	3245.6	3228.2	3228.2	3220.1	3212.0	3201.3	3210.7	3225.5	3229.4	3218.8
40°	3523.8	3533.2	3511.7	3510.4	3513.1	3487.5	3475.4	3490.2	3499.7	3515.8	3503.6
42.5°	3851.7	3845.1	3823.5	3820.8	3806.0	3798.0	3787.3	3799.4	3814.1	3824.8	3828.9
45°	4166.3	4160.8	4136.7	4136.7	4122.0	4115.1	4120.5	4140.7	4147.4	4162.2	4177.0
47.5°	4476.7	4470.1	4453.9	4460.5	4461.9	4473.9	4491.4	4510.3	4529.2	4549.2	4556.0
50°	4793.9	4795.2	4777.7	4793.9	4814.0	4847.7	4894.7	4925.5	4964.5	4990.1	4998.2
52.5°	5082.8	5088.2	5107.0	5144.6	5184.9	5250.8	5331.5	5406.7	5471.1	5514.2	5511.5
55°	5429.5	5437.7	5483.2	5547.8	5613.6	5713.1	5832.7	5965.8	6073.2	6135.1	6096.1
57.5°	5873.0	5890.5	5941.6	6028.9	6127.0	6256.0	6420.1	6620.2	6786.9	6870.2	6807.1
60°	6481.8	6492.6	6554.5	6651.1	6769.4	6929.4	7148.5	7417.3	7652.4	7762.7	7690.1
62.5°	7284.2	7304.3	7354.0	7452.1	7573.1	7754.5	8022.1	8358.0	8651.0	8804.2	8640.2
65°	8242.4	8307.0	8348.6	8448.0	8560.9	8753.1	9032.7	9392.8	9707.3	9808.1	9618.6
67.5°	9191.2	9247.7	9320.3	9434.5	9548.7	9765.1	10024.5	10373.9	10719.3	10810.6	10516.4
70°	9606.5	9638.8	9751.7	9907.6	10126.5	10382.1	10681.7	11074.1	11501.5	11576.8	11203.1
72.5°	8774.6	8806.9	8933.2	9198.0	9579.7	9985.5	10508.3	11084.9	11649.3	11734.0	11219.3
75°	6636.4	6584.0	6770.8	7121.6	7636.3	8202.1	8933.2	9759.7	10575.5	10681.7	10067.4
77.5°	3429.7	3423.0	3564.1	3999.6	4613.8	5257.5	6062.6	6996.6	7794.9	8117.4	7617.4
80°	966.3	977.0	1044.3	1260.7	1619.4	2084.4	2713.5	3588.3	4241.5	4574.8	4295.2
82.5°	379.0	408.5	434.1	474.4	521.5	590.0	787.5	1172.0	1572.5	1878.8	1538.8
85°	135.7	145.1	205.6	243.2	247.3	260.7	296.9	346.8	417.9	498.6	409.9
87.5°	51.1	56.5	65.9	108.8	107.5	98.2	119.6	125.0	94.1	86.0	106.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1
2.5°	2069.7	2071.0	2071.0	2072.3	2073.7	2073.7	2076.4	2076.4
5°	2071.0	2071.0	2068.4	2069.7	2068.4	2068.4	2069.7	2069.7
7.5°	2068.4	2066.9	2064.4	2063.0	2060.3	2060.3	2060.3	2060.3
10°	2064.4	2063.0	2060.3	2058.9	2057.6	2057.6	2057.6	2057.6
12.5°	2075.1	2071.0	2068.4	2066.9	2066.9	2066.9	2066.9	2066.9
15°	2103.2	2093.9	2087.2	2087.2	2088.5	2091.2	2091.2	2093.9
17.5°	2138.2	2127.5	2120.7	2115.4	2118.1	2122.2	2124.8	2127.5
20°	2179.8	2174.5	2165.1	2159.7	2159.7	2165.1	2167.8	2169.2
22.5°	2237.6	2233.6	2229.7	2222.9	2222.9	2225.6	2231.0	2231.0
25°	2323.7	2321.0	2318.3	2312.9	2311.6	2311.6	2314.3	2317.0
27.5°	2431.2	2432.5	2429.8	2428.5	2424.5	2423.2	2427.2	2425.8
30°	2575.0	2581.7	2588.5	2583.1	2576.4	2572.3	2568.2	2562.9
32.5°	2769.8	2761.8	2756.4	2747.0	2735.0	2724.2	2716.0	2706.7
35°	2954.1	2940.6	2935.1	2943.2	2942.0	2935.1	2925.8	2917.7
37.5°	3179.8	3177.0	3179.8	3194.5	3191.9	3198.6	3179.8	3178.5
40°	3464.7	3467.4	3486.3	3503.6	3513.1	3522.5	3511.7	3501.0
42.5°	3795.3	3793.9	3800.7	3824.8	3841.0	3851.7	3828.9	3826.3
45°	4144.8	4135.4	4140.7	4160.8	4177.0	4189.1	4163.6	4163.6
47.5°	4529.2	4513.0	4495.5	4518.3	4527.7	4535.8	4515.6	4508.9
50°	4957.8	4924.2	4886.6	4896.0	4896.0	4893.2	4867.8	4866.4
52.5°	5449.8	5387.9	5319.3	5293.8	5279.0	5262.9	5218.6	5197.0
55°	6015.5	5922.7	5815.3	5749.4	5714.5	5670.1	5596.2	5576.0
57.5°	6676.8	6531.6	6346.1	6265.5	6187.6	6114.9	6033.0	6010.2
60°	7460.2	7246.5	7000.6	6851.4	6766.8	6696.9	6612.3	6608.2
62.5°	8333.9	7996.4	7718.3	7583.9	7522.1	7460.2	7379.6	7390.4
65°	9222.1	8870.0	8609.3	8500.5	8442.7	8391.6	8311.0	8323.1
67.5°	10098.4	9774.6	9488.3	9376.7	9312.1	9247.7	9175.1	9187.2
70°	10727.4	10325.5	10003.0	9755.8	9601.1	9426.5	9313.6	9285.3
72.5°	10547.4	9927.8	9415.8	8925.2	8637.6	8403.6	8245.1	8176.5
75°	9128.1	8281.5	7622.9	7020.8	6682.1	6406.6	6206.4	6081.4
77.5°	6778.9	5827.4	5049.2	4355.7	3807.3	3439.2	3179.8	3011.7
80°	3710.7	2822.2	2063.0	1450.1	1065.8	885.6	782.2	732.5
82.5°	1155.8	745.9	549.7	474.4	440.9	422.0	391.0	341.3
85°	368.2	322.6	299.7	286.3	272.8	237.8	164.0	149.1
87.5°	142.5	146.5	145.1	137.1	139.8	100.8	80.7	71.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)