

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: P383268

Luminaire Tested: **GLEON-SA5D-735-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383268  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA5D-735-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26183.9 lumens  
Efficiency: N/A  
Efficacy: 81.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 320  
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

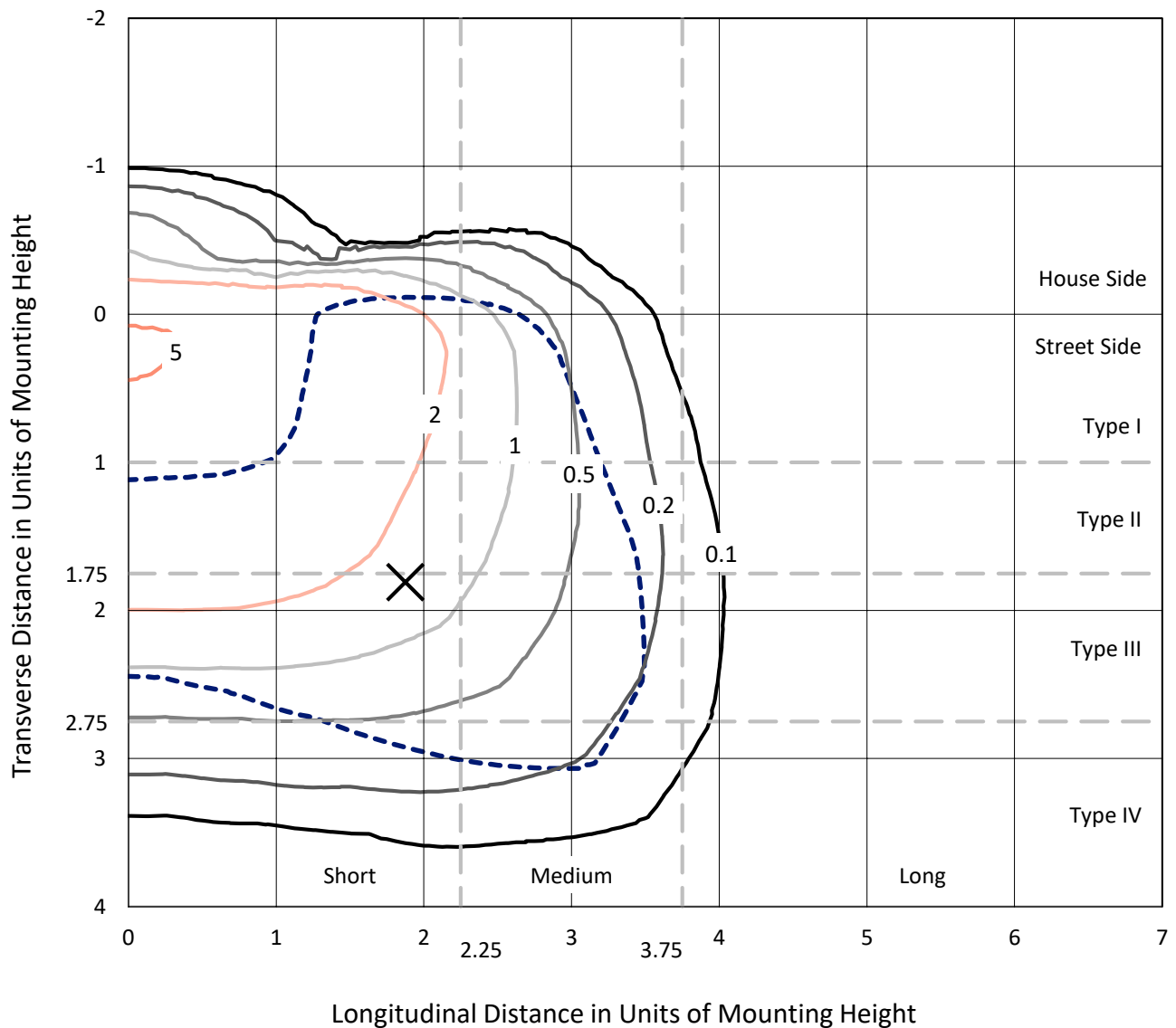




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### Iso-Footcandle Lines of Horizontal Illumination

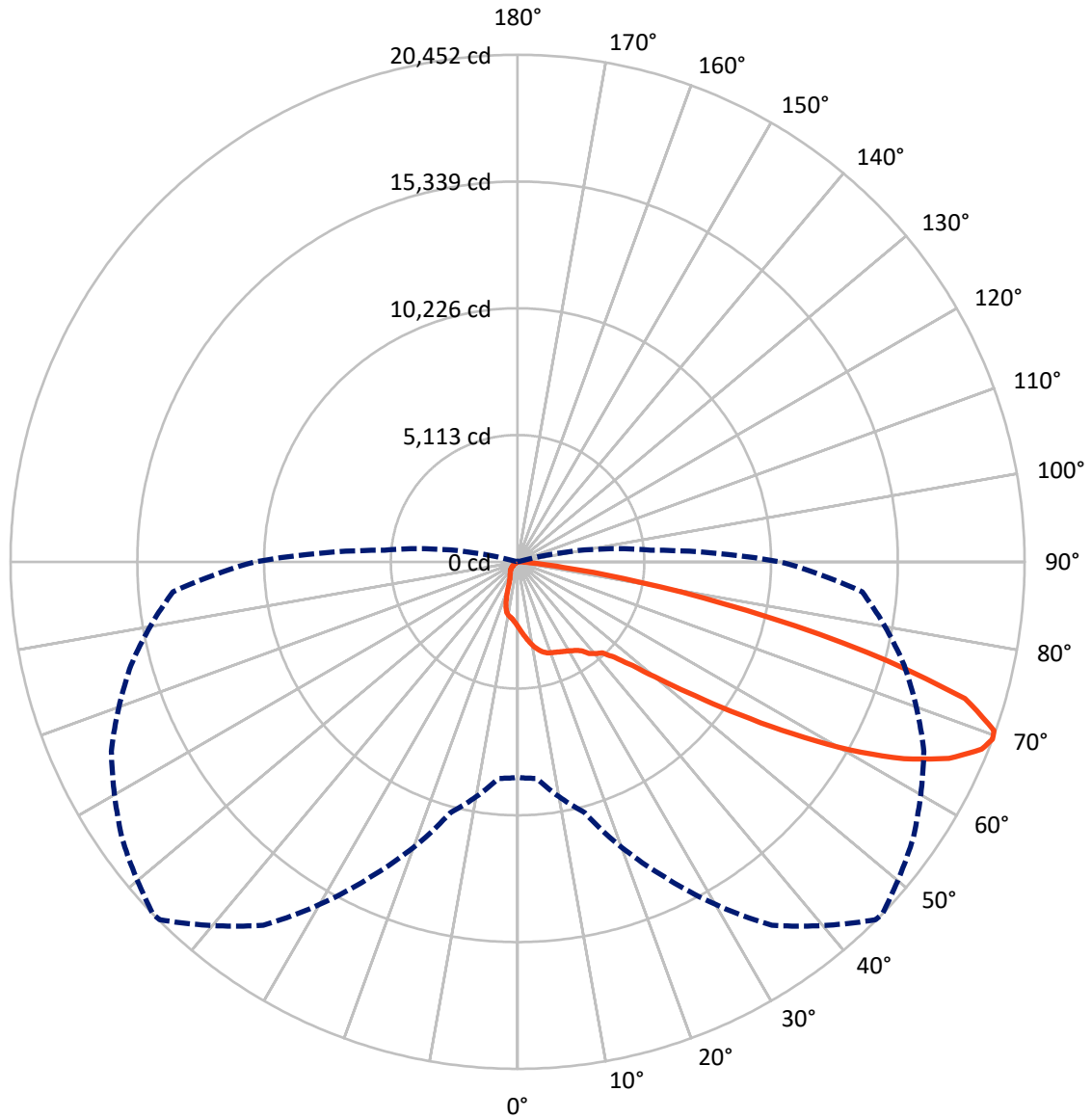
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2687.2	0.0	2687.2
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	23496.8	0.0	23496.8
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	26183.9	0.0	26183.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.1	1.0
10°-20°	792.2	3.0
20°-30°	1245.9	4.8
30°-40°	1786.6	6.8
40°-50°	3087.9	11.8
50°-60°	6100.5	23.3
60°-70°	8526.0	32.6
70°-80°	4119.0	15.7
80°-90°	264.7	1.0
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°	26183.9	100.0
0°-180°	26183.9	100.0

**Coefficient of Utilization**



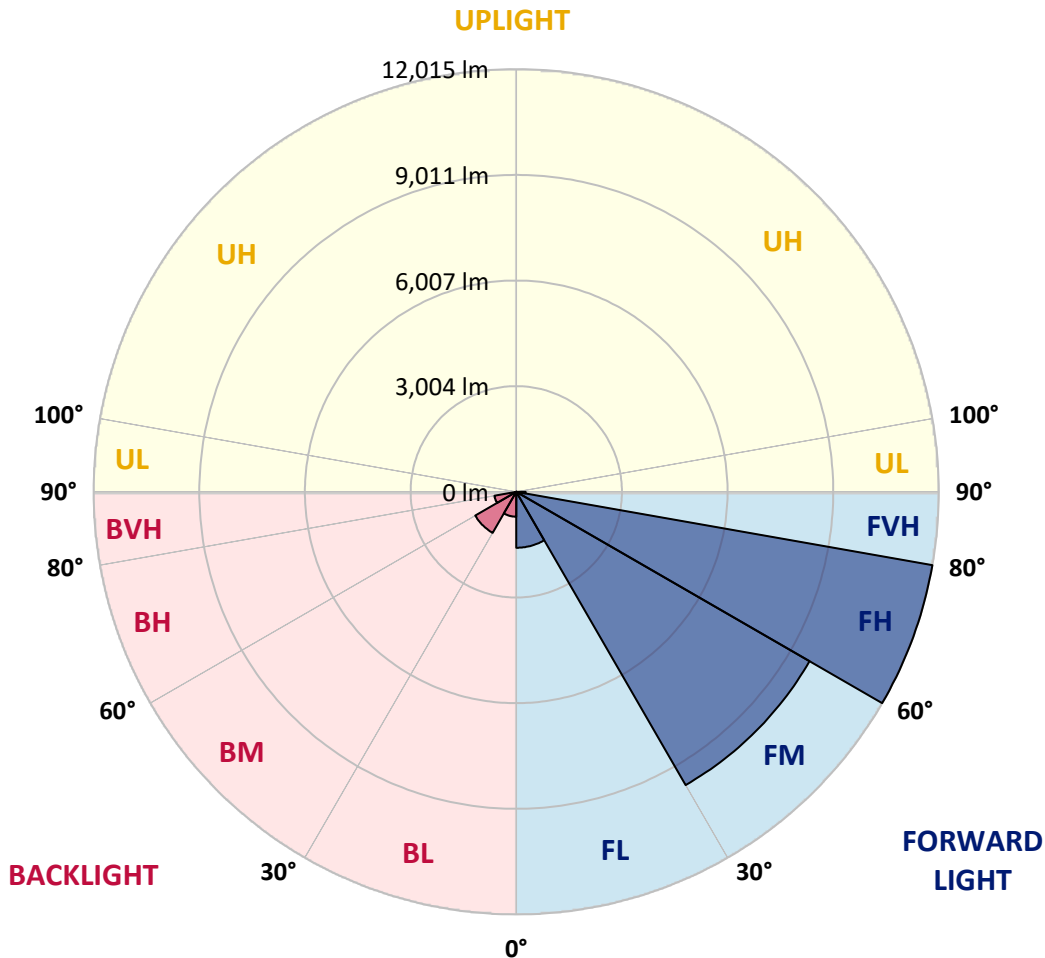
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1591.0	6.1			
FM (30°-60°)	9628.4	36.8			
FH (60°-80°)	12014.8	45.9			G5
FVH (80°-90°)	262.5	1.0			G3/500
BL (0°-30°)	708.2	2.7	B2/1000		
BM (30°-60°)	1346.6	5.1	B2/2500		
BH (60°-80°)	630.1	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.2	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2623.5	2623.5	2623.5	2623.5	2623.5	2623.5	2623.5	2623.5	2623.5	2623.5	2623.5
2.5°	2914.5	2910.8	2893.7	2886.2	2844.5	2820.0	2810.1	2779.5	2735.2	2691.1	2642.0
5°	3246.0	3244.8	3212.8	3182.2	3103.5	3029.9	3016.4	2945.2	2845.8	2752.4	2659.1
7.5°	3584.8	3568.9	3536.9	3478.0	3363.8	3246.0	3234.9	3134.3	2993.1	2858.0	2724.2
10°	3872.1	3862.3	3820.6	3730.8	3597.1	3463.2	3449.8	3325.7	3166.1	3000.4	2829.8
12.5°	4095.5	4088.2	4032.9	3921.2	3778.7	3640.0	3621.7	3511.1	3340.5	3155.2	2953.8
15°	4231.7	4228.1	4160.6	4041.5	3901.5	3781.2	3765.2	3668.2	3509.9	3315.9	3088.8
17.5°	4263.7	4264.9	4194.9	4074.7	3959.3	3873.3	3861.0	3787.4	3654.7	3462.0	3223.9
20°	4192.5	4207.2	4144.6	4040.3	3969.0	3923.7	3913.8	3869.6	3757.9	3576.2	3331.9
22.5°	4091.8	4099.2	4056.2	3986.3	3956.7	3965.4	3960.5	3935.9	3841.4	3674.4	3438.7
25°	4030.4	4030.4	4004.6	3945.8	3965.4	4018.1	4019.3	4014.5	3939.6	3794.8	3568.9
27.5°	4028.0	4020.7	3991.1	3947.0	4001.0	4082.0	4086.9	4120.0	4073.4	3940.8	3730.8
30°	4126.2	4117.6	4055.0	3997.3	4066.0	4153.2	4165.5	4237.9	4214.6	4099.2	3911.4
32.5°	4355.7	4325.1	4186.4	4091.8	4143.4	4247.8	4263.7	4379.1	4415.9	4294.4	4085.7
35°	4670.0	4573.1	4373.0	4271.1	4276.0	4385.3	4400.0	4569.4	4678.7	4473.7	4220.7
37.5°	5103.4	5055.5	4730.2	4457.6	4479.8	4645.5	4688.5	4872.6	4841.9	4571.8	4374.2
40°	6053.7	5978.8	5632.5	4980.7	4675.0	4856.6	4870.1	4968.4	4970.8	4794.0	4693.4
42.5°	7347.6	7316.9	6952.3	5929.7	5059.2	4997.8	5022.4	5188.2	5373.5	5263.1	5258.1
45°	8780.3	8764.4	8377.6	7189.2	5836.3	5460.6	5491.4	5713.6	6068.4	6093.0	6248.8
47.5°	9933.1	9925.7	9703.5	8594.9	7025.9	6245.2	6255.0	6490.7	7114.3	7422.5	7671.8
50°	10984.0	11019.6	10844.1	10116.0	8646.5	7474.1	7450.7	7607.9	8609.6	9114.3	9423.6
52.5°	12444.9	12495.2	12002.9	11535.2	10346.8	8998.8	8980.4	9144.9	10407.0	10785.1	10840.3
55°	13735.2	13649.2	13260.1	13125.0	12420.3	10882.1	10877.1	11022.1	12145.3	12306.2	12408.0
57.5°	14304.8	14271.7	14459.5	14768.8	14592.1	13107.8	13096.8	12986.3	13700.8	13718.0	14031.1
60°	14664.5	14705.0	15280.8	16234.7	16675.4	15503.0	15431.8	14757.9	15186.3	15148.3	15483.3
62.5°	14394.5	14474.2	15510.4	17100.2	18234.6	17593.8	17493.1	16380.8	16455.7	16324.3	16636.1
65°	12960.5	13084.5	14782.4	16936.9	19008.0	19227.8	19125.9	17813.5	17463.6	17247.5	17074.4
67.5°	10523.6	10597.3	12370.0	15516.5	18659.4	20202.6	20181.7	19069.4	18224.8	17091.7	15748.6
69°	8696.8	8769.2	10475.7	14021.2	17892.0	20411.2	20451.8	19472.0	18079.9	16143.9	13953.7
70°	7366.0	7443.3	9033.2	12739.6	17002.0	20314.3	20386.7	19434.0	17664.9	15046.4	12378.6
72.5°	3863.5	3929.7	5561.3	8776.6	13860.4	18653.2	18873.0	17791.4	14973.9	10927.5	7319.4
75°	1214.2	1252.2	2171.7	4587.8	9489.9	14503.7	14554.0	13956.2	10632.9	6010.7	3048.3
77.5°	462.8	451.8	723.1	1690.5	4797.7	9132.6	9440.8	8721.3	5579.8	2125.1	703.4
80°	249.2	250.4	375.7	699.8	2052.7	4693.4	4953.7	4226.9	1982.7	663.0	162.1
82.5°	108.1	112.9	211.2	370.8	942.8	1731.0	1861.1	1549.3	757.4	445.7	60.2
85°	23.3	25.8	101.9	201.3	384.3	486.2	509.5	502.1	482.4	346.2	23.3
87.5°	0.0	0.0	45.5	72.5	97.0	110.5	97.0	126.4	266.4	233.3	12.3
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°	2623.5	2623.5	2623.5	2623.5	2623.5	2623.5	2623.5	2623.5	2623.5	2623.5	2623.5
2.5°	2626.0	2603.9	2565.9	2524.1	2494.6	2463.9	2439.4	2428.4	2416.1	2407.5	2418.5
5°	2621.1	2578.2	2504.5	2433.2	2381.7	2340.0	2305.6	2292.1	2278.6	2268.7	2267.5
7.5°	2664.0	2603.9	2491.0	2386.6	2306.8	2250.3	2203.7	2184.0	2168.1	2160.7	2154.6
10°	2746.3	2669.0	2518.0	2381.7	2278.6	2182.8	2082.1	2004.8	1954.5	1931.1	1922.5
12.5°	2853.1	2756.1	2569.5	2407.5	2257.7	2073.5	1859.9	1675.8	1556.7	1517.4	1494.1
15°	2978.3	2858.0	2637.0	2440.7	2181.6	1845.2	1483.0	1242.4	1131.9	1109.8	1085.3
17.5°	3098.6	2966.0	2718.1	2446.7	2014.6	1474.5	1086.5	923.2	880.2	894.9	898.7
20°	3204.2	3072.9	2797.9	2392.8	1711.3	1106.1	841.0	800.5	816.4	844.6	849.6
22.5°	3311.0	3176.0	2871.5	2250.3	1323.4	839.7	757.4	767.3	783.2	811.5	816.4
25°	3441.1	3301.2	2940.2	1988.9	993.2	714.5	719.4	734.2	750.1	775.9	778.3
27.5°	3590.9	3459.6	2985.7	1648.7	736.6	656.8	672.8	694.8	710.9	735.4	740.3
30°	3789.8	3668.2	3000.4	1296.4	617.5	605.2	612.6	639.6	663.0	685.1	688.7
32.5°	3976.4	3874.5	2951.3	978.5	572.1	557.3	557.3	573.4	600.3	621.2	626.1
35°	4148.3	4082.0	2794.2	715.7	537.7	513.2	500.9	500.9	518.0	535.3	540.2
37.5°	4375.4	4373.0	2540.1	570.9	504.6	476.3	450.6	430.9	424.8	428.4	430.9
40°	4764.6	4768.3	2208.6	512.0	476.3	438.3	399.0	363.4	330.2	319.1	317.9
42.5°	5372.3	5317.1	1861.1	483.7	451.8	399.0	340.1	292.2	240.6	224.7	223.5
45°	6337.2	6009.4	1492.8	457.9	426.0	354.8	281.1	216.0	174.3	162.1	162.1
47.5°	7742.9	6919.2	1156.4	429.7	391.6	304.4	212.4	155.9	127.7	121.6	122.8
50°	9196.5	7810.5	886.4	394.0	349.9	251.7	157.2	112.9	97.0	97.0	98.2
52.5°	10485.5	8463.6	691.2	356.0	298.3	197.7	119.1	88.4	81.0	79.8	81.0
55°	11692.3	8884.6	529.1	311.8	237.0	147.3	90.8	72.5	67.5	65.0	63.8
57.5°	12856.2	9093.4	396.6	251.7	171.9	106.8	72.5	61.4	56.5	52.8	51.6
60°	13630.9	8923.9	272.6	185.4	119.1	77.3	60.2	52.8	46.7	42.9	41.7
62.5°	14067.9	8461.2	175.6	133.8	84.7	57.7	47.9	44.2	35.6	32.0	32.0
65°	13891.1	7697.5	122.8	95.8	61.4	42.9	35.6	35.6	25.8	20.9	19.7
67.5°	12309.8	6502.9	93.3	71.2	44.2	32.0	27.0	30.6	15.9	9.8	9.8
69°	10591.1	5389.5	79.8	59.0	36.8	25.8	23.3	28.2	11.1	7.4	6.1
70°	9205.1	4649.2	72.5	51.6	30.6	22.1	20.9	27.0	11.1	6.1	4.9
72.5°	5507.3	2592.9	55.2	36.8	19.7	17.2	17.2	30.6	11.1	6.1	4.9
75°	2225.7	913.4	40.5	25.8	14.7	14.7	20.9	39.3	9.8	4.9	3.7
77.5°	504.6	200.1	23.3	15.9	9.8	14.7	24.6	30.6	6.1	2.4	0.0
80°	122.8	49.1	14.7	9.8	6.1	11.1	18.4	17.2	1.2	0.0	0.0
82.5°	40.5	17.2	6.1	4.9	1.2	3.7	8.6	4.9	0.0	0.0	0.0
85°	17.2	9.8	2.4	1.2	0.0	0.0	1.2	0.0	0.0	0.0	0.0
87.5°	11.1	3.7	0.0	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)