

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: P383266

Luminaire Tested: **GLEON-SA5D-735-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383266  
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-SA5D-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1200mA 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: 25654.8 lumens  
Efficiency: N/A  
Efficacy: 80.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

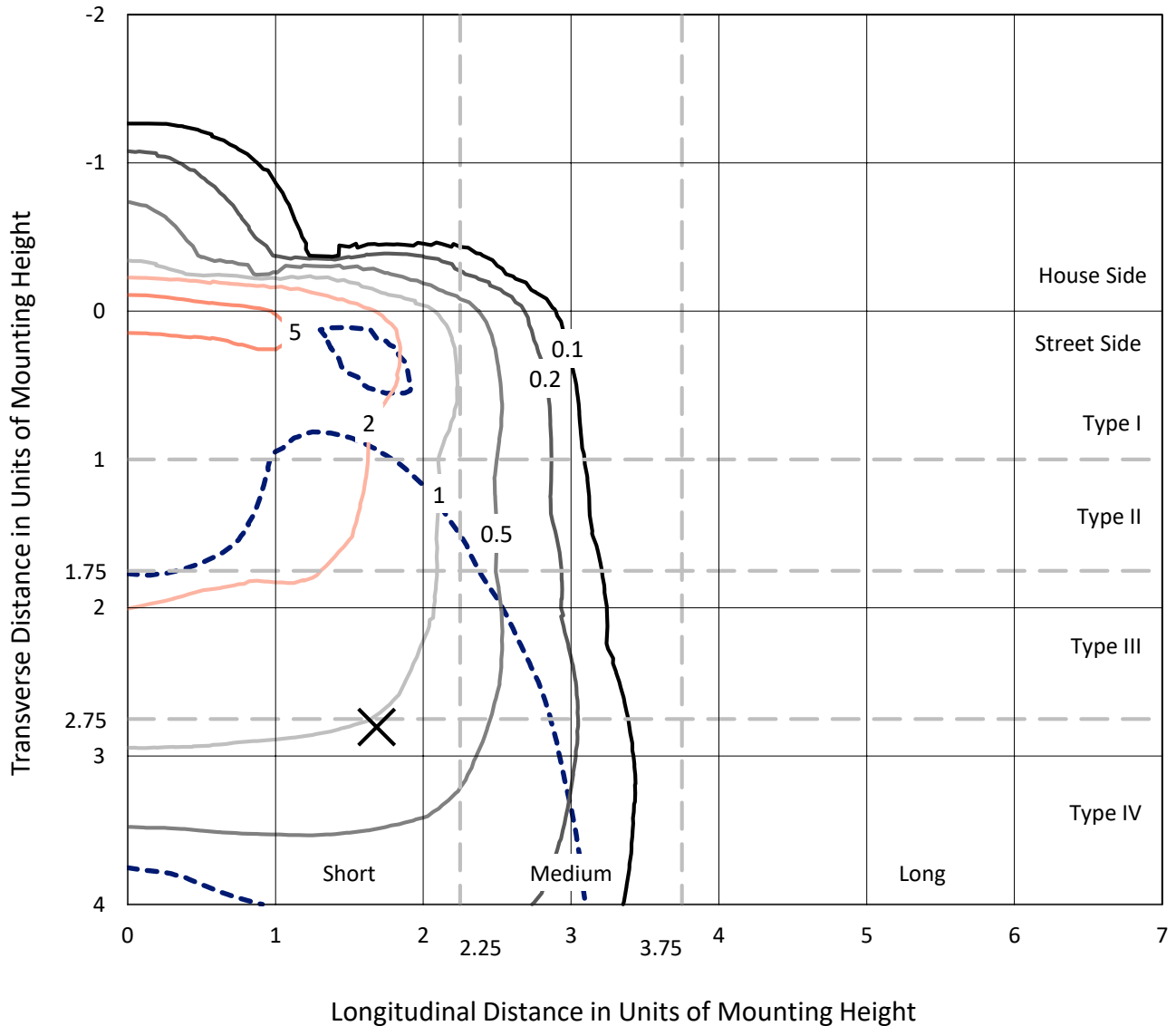
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

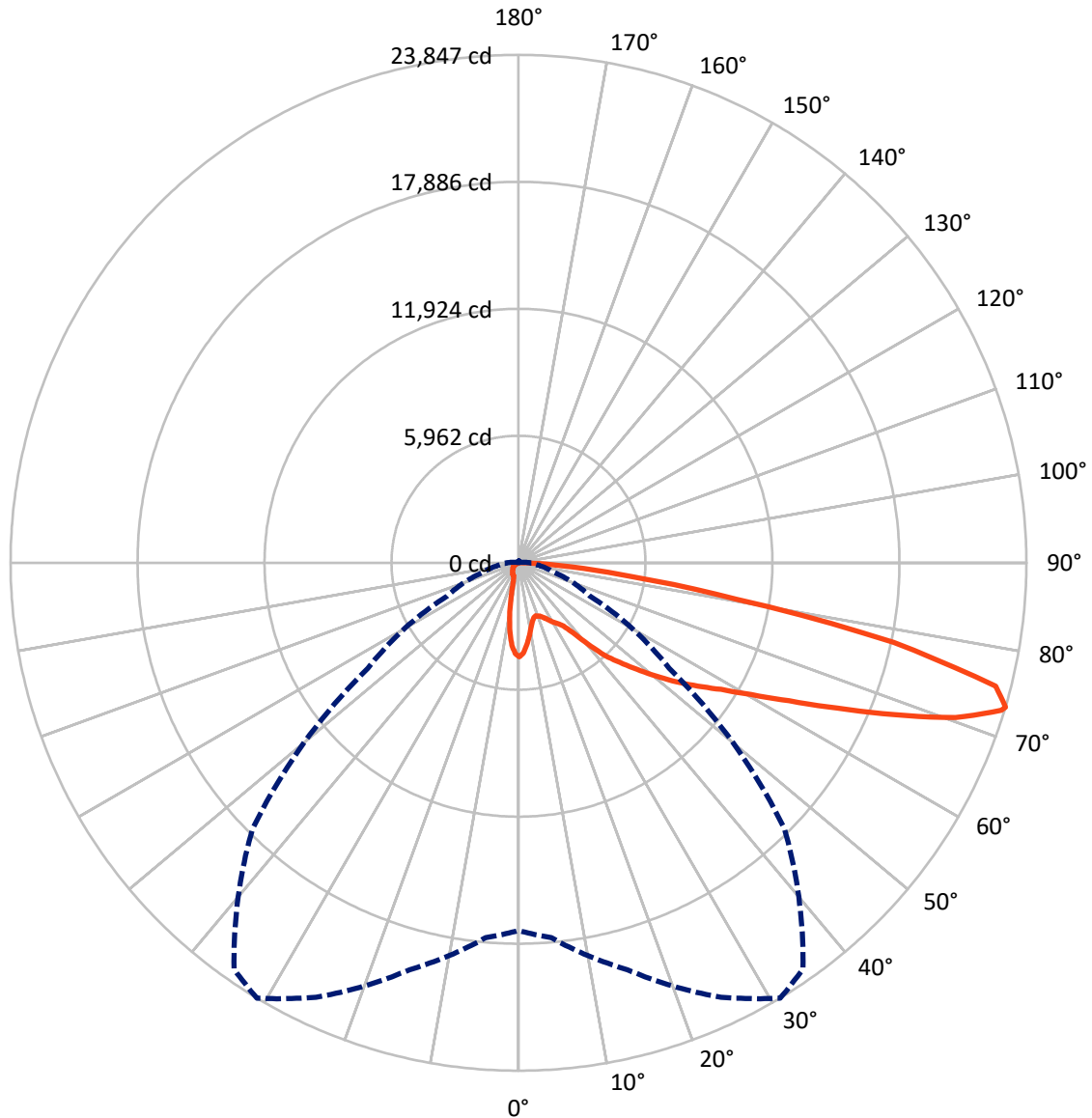
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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
<b>House Side</b>	Lumens	2338.5	0.0	2338.5
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	23316.3	0.0	23316.3
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	25654.8	0.0	25654.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	366.0	1.4
10°-20°	794.6	3.1
20°-30°	1190.6	4.6
30°-40°	1894.3	7.4
40°-50°	3382.6	13.2
50°-60°	5248.9	20.5
60°-70°	6977.7	27.2
70°-80°	5248.6	20.5
80°-90°	551.5	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°	25654.8	100.0
0°-180°	25654.8	100.0

**Coefficient of Utilization**



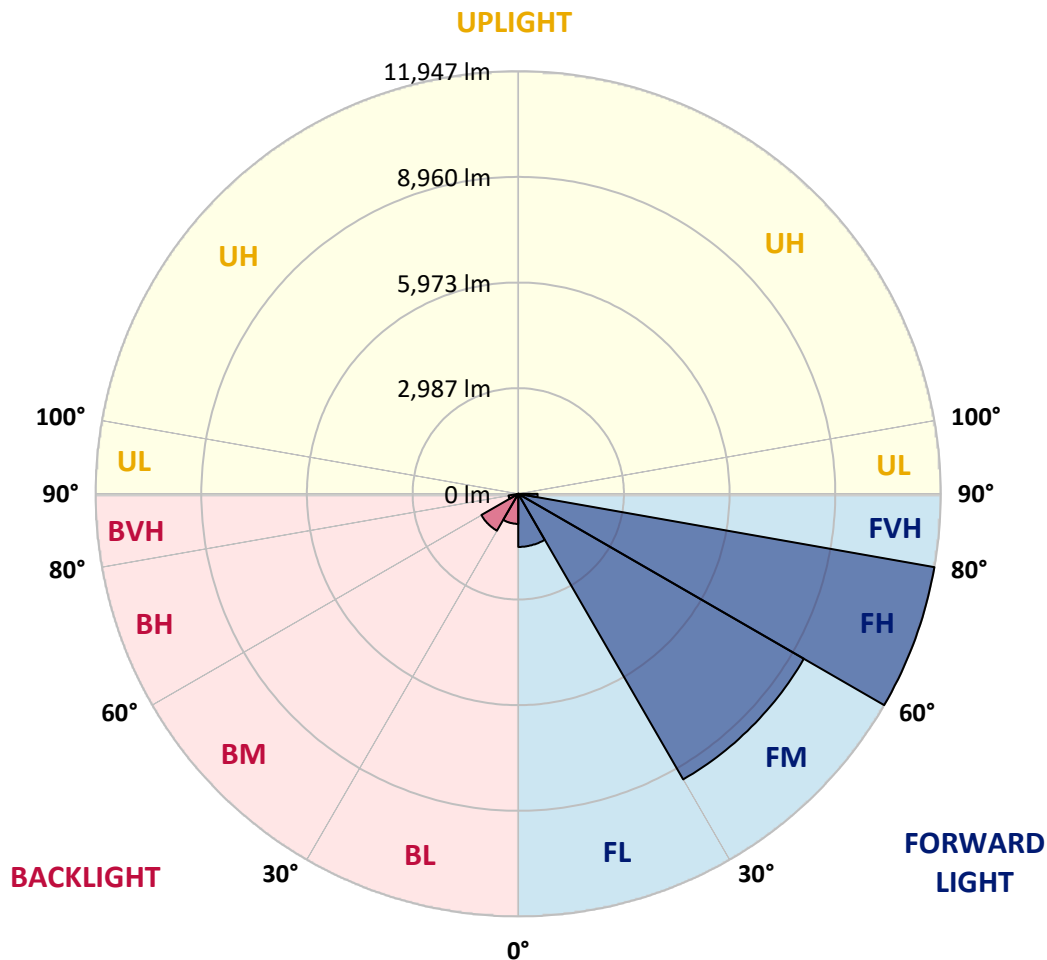
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1500.8	5.9			
FM (30°-60°)	9322.1	36.3			
FH (60°-80°)	11946.5	46.6			G4/12000
FVH (80°-90°)	546.9	2.1			G4/750
BL (0°-30°)	850.4	3.3	B2/1000		
BM (30°-60°)	1203.7	4.7	B2/2500		
BH (60°-80°)	279.8	1.1	B1/500		G1/500
BVH (80°-90°)	4.6	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°	4414.0	4414.0	4414.0	4414.0	4414.0	4414.0	4414.0	4414.0	4414.0	4414.0	4414.0
2.5°	4182.9	4200.5	4219.4	4223.2	4254.6	4255.8	4301.0	4334.9	4368.8	4401.4	4412.7
5°	3753.7	3782.5	3816.4	3850.3	3916.8	3943.1	4053.6	4166.6	4274.6	4377.5	4427.7
7.5°	3295.4	3328.0	3375.7	3459.9	3533.9	3585.4	3759.9	3960.8	4161.6	4351.2	4460.4
10°	2877.4	2907.5	2957.7	3046.8	3161.1	3231.4	3466.1	3744.8	4039.8	4327.3	4509.3
12.5°	2611.2	2627.5	2655.2	2750.6	2853.5	2932.6	3208.8	3554.0	3939.4	4326.1	4588.4
15°	2562.2	2567.3	2544.7	2587.4	2667.7	2744.2	3024.3	3399.6	3862.8	4346.1	4691.4
17.5°	2640.1	2637.6	2562.2	2557.2	2621.3	2684.1	2933.8	3292.9	3808.8	4392.6	4824.5
20°	2758.1	2749.3	2618.8	2594.9	2662.7	2721.7	2927.6	3252.7	3788.8	4470.5	4986.4
22.5°	2915.0	2900.0	2695.3	2670.2	2743.0	2804.5	3005.5	3291.6	3806.4	4574.6	5174.7
25°	3109.6	3087.1	2827.2	2799.5	2873.6	2935.1	3144.7	3403.4	3859.1	4701.4	5413.2
27.5°	3329.3	3296.7	3038.1	2966.5	3050.6	3114.6	3330.6	3574.1	3941.9	4835.8	5705.7
30°	3536.4	3493.8	3260.2	3142.3	3245.2	3316.8	3531.4	3777.5	4075.0	5042.9	6106.2
32.5°	3744.8	3697.1	3458.6	3318.0	3410.9	3488.7	3738.6	4057.4	4324.8	5359.3	6638.5
35°	4224.4	4174.2	3881.7	3649.4	3648.2	3692.1	4028.6	4440.3	4655.0	5799.9	7273.7
37.5°	5031.7	5002.8	4724.1	4283.4	4165.4	4116.4	4424.0	4897.3	5129.6	6406.3	7990.5
40°	5915.4	5890.3	5577.7	5178.5	4999.0	4878.4	4991.4	5533.8	5799.9	7146.9	8722.5
42.5°	6913.5	6794.1	6236.8	6117.6	5956.9	5865.2	5763.5	6318.4	6623.5	7952.9	9448.1
45°	7819.9	7618.9	6895.9	6715.1	6678.7	6701.3	6757.8	7372.9	7549.9	8910.8	10171.2
47.5°	8359.7	8201.5	7646.6	7473.3	7463.3	7612.7	8039.5	8564.3	8472.6	9745.7	10807.7
50°	8873.1	8730.0	8269.3	8311.9	8358.4	8561.8	9494.5	9789.5	9315.0	10502.6	11391.4
52.5°	9288.6	9070.2	8829.2	9069.0	9297.4	9625.1	10996.0	10889.3	9912.6	11105.3	11891.1
55°	9528.4	9429.2	9546.0	9787.0	10216.4	10748.7	12413.3	11804.5	10349.5	11655.1	12223.8
57.5°	10407.2	10212.6	10444.9	10653.3	11213.1	11957.6	13627.3	12486.2	10664.5	11995.3	12300.3
60°	11470.5	11313.6	11450.5	11796.9	12552.7	13427.7	14762.1	13042.3	10829.1	12213.7	12102.0
62.5°	13162.8	12955.7	12870.3	13258.3	14260.0	15215.3	15623.4	13427.7	10792.6	12117.1	11421.6
65°	15430.1	15215.3	14833.8	15185.3	16459.4	17133.6	16586.3	13509.3	10541.6	11335.0	9701.7
67.5°	17752.5	17596.8	17270.4	17863.0	19013.0	19230.1	17604.4	13311.0	9733.1	9190.7	6854.4
70°	19286.6	19220.1	19432.3	20742.9	21768.5	21705.8	18538.4	12245.1	7586.3	5651.8	3390.8
72.5°	18180.6	18499.5	20066.2	22442.7	23695.6	23183.3	18058.8	9402.9	4336.2	2174.3	980.5
73°	17264.2	17672.2	19781.2	22506.7	23847.4	23286.3	17655.9	8630.8	3695.9	1716.1	743.2
75°	12010.4	12511.2	16376.6	20961.3	23136.9	22186.6	14717.0	5282.7	1712.4	760.8	300.1
77.5°	5831.3	6201.7	9017.5	15145.1	17993.6	17334.5	9161.9	1968.5	773.3	475.8	138.1
80°	2176.8	2420.4	3914.4	7708.1	10398.4	10670.9	4029.8	744.5	514.7	382.9	70.3
82.5°	569.9	635.2	1443.7	3437.2	5329.1	5577.7	1270.4	375.3	376.6	315.1	42.7
85°	182.0	208.4	450.7	1542.9	2510.8	2204.5	331.4	182.0	273.7	234.7	23.8
87.5°	22.6	28.9	143.1	362.8	553.6	307.6	51.5	53.9	116.7	130.6	13.8
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°	4414.0	4414.0	4414.0	4414.0	4414.0	4414.0	4414.0	4414.0	4414.0	4414.0	4414.0
2.5°	4424.0	4417.8	4419.0	4386.4	4365.0	4322.3	4278.4	4258.3	4237.0	4228.2	4237.0
5°	4446.6	4435.3	4402.7	4302.3	4195.5	4057.4	3928.1	3830.2	3707.2	3673.3	3708.4
7.5°	4481.8	4459.1	4363.7	4159.1	3921.8	3658.2	3362.0	3146.0	2969.0	2854.7	2896.2
10°	4533.2	4490.5	4298.4	3950.7	3526.4	3059.4	2638.8	2311.2	2078.9	1983.5	1979.7
12.5°	4619.8	4539.5	4218.1	3679.5	3043.1	2420.4	1869.2	1514.0	1325.7	1203.9	1201.4
15°	4715.2	4597.3	4116.4	3354.4	2480.6	1733.7	1203.9	934.0	812.2	773.3	768.3
17.5°	4832.0	4663.8	3984.6	2953.9	1891.9	1148.7	785.9	708.1	703.0	699.2	699.2
20°	4978.9	4742.9	3815.2	2495.7	1342.0	767.0	667.8	672.9	675.4	670.3	671.6
22.5°	5149.6	4823.2	3613.0	2003.6	907.6	641.5	639.0	645.3	647.8	645.3	646.5
25°	5348.0	4916.1	3367.0	1487.7	655.3	608.9	615.1	624.0	630.2	630.2	630.2
27.5°	5594.0	5029.1	3070.7	1038.2	566.2	575.0	592.6	608.9	617.6	620.1	620.1
30°	5914.1	5169.7	2715.5	711.8	514.7	529.8	562.4	593.8	610.2	612.6	613.9
32.5°	6318.4	5327.9	2303.6	526.0	470.8	482.1	517.2	569.9	601.3	606.3	606.3
35°	6781.7	5511.2	1860.5	458.2	439.4	443.1	470.8	531.1	586.2	600.1	601.3
37.5°	7288.8	5691.9	1414.8	428.0	413.0	413.0	433.1	484.6	549.9	592.6	597.6
40°	7762.1	5801.2	991.7	404.2	389.2	389.2	406.7	444.4	505.9	569.9	583.8
42.5°	8199.0	5838.8	690.5	381.7	366.6	370.4	385.4	415.6	462.0	526.0	538.5
45°	8648.4	5832.6	503.4	355.3	344.0	355.3	366.6	389.2	423.1	459.4	462.0
47.5°	8987.4	5779.8	399.3	330.1	322.6	337.7	347.7	362.8	381.7	379.1	379.1
50°	9304.9	5651.8	321.4	296.2	301.3	318.9	323.9	328.9	330.1	306.3	303.8
52.5°	9546.0	5452.2	257.4	259.9	279.9	297.5	292.5	285.0	272.4	243.5	238.6
55°	9626.3	5068.0	202.1	214.6	248.5	271.2	252.4	236.1	212.2	188.3	183.3
57.5°	9480.7	4572.1	164.4	166.9	209.7	228.5	207.2	188.3	161.9	141.9	138.1
60°	9171.9	4021.0	135.5	125.6	161.9	178.3	164.4	145.6	121.8	106.7	105.5
62.5°	8559.2	3433.5	111.7	97.9	123.1	136.8	128.1	114.2	94.2	84.1	82.8
65°	7271.2	2746.8	90.4	79.1	95.4	106.7	99.2	89.1	74.1	66.5	65.3
67.5°	5075.5	1856.8	74.1	65.3	75.4	84.1	77.9	72.8	59.0	57.8	59.0
70°	2448.0	895.1	61.5	52.7	59.0	65.3	62.8	59.0	56.5	65.3	75.4
72.5°	701.7	300.1	49.0	44.0	47.7	51.5	53.9	52.7	61.5	79.1	91.7
73°	539.8	242.3	46.5	41.5	45.2	50.2	52.7	51.5	62.8	80.3	91.7
75°	231.0	116.7	35.1	33.9	37.6	44.0	46.5	46.5	62.8	81.6	87.8
77.5°	104.2	62.8	22.6	26.4	32.6	35.1	38.9	38.9	50.2	62.8	62.8
80°	59.0	33.9	17.6	20.1	23.8	23.8	23.8	21.3	22.6	25.2	27.6
82.5°	37.6	22.6	13.8	16.3	15.1	12.6	10.1	10.1	8.8	10.1	12.6
85°	21.3	12.6	12.6	10.1	6.2	5.0	6.2	5.0	1.2	0.0	1.2
87.5°	12.6	7.5	3.7	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)