

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: P383196

Luminaire Tested: **GLEON-SA5B-735-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383196  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA5B-735-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21594.2 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

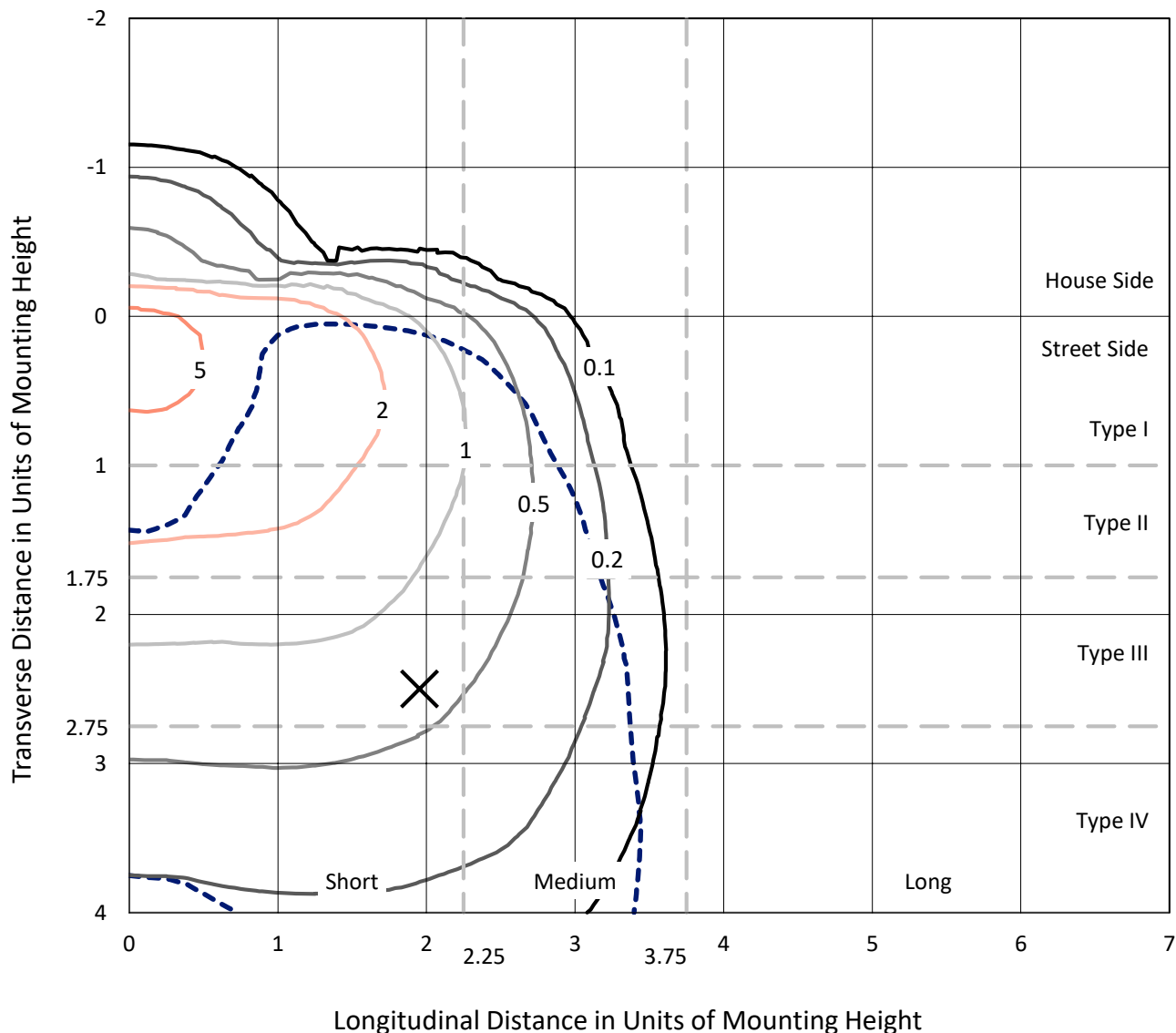
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

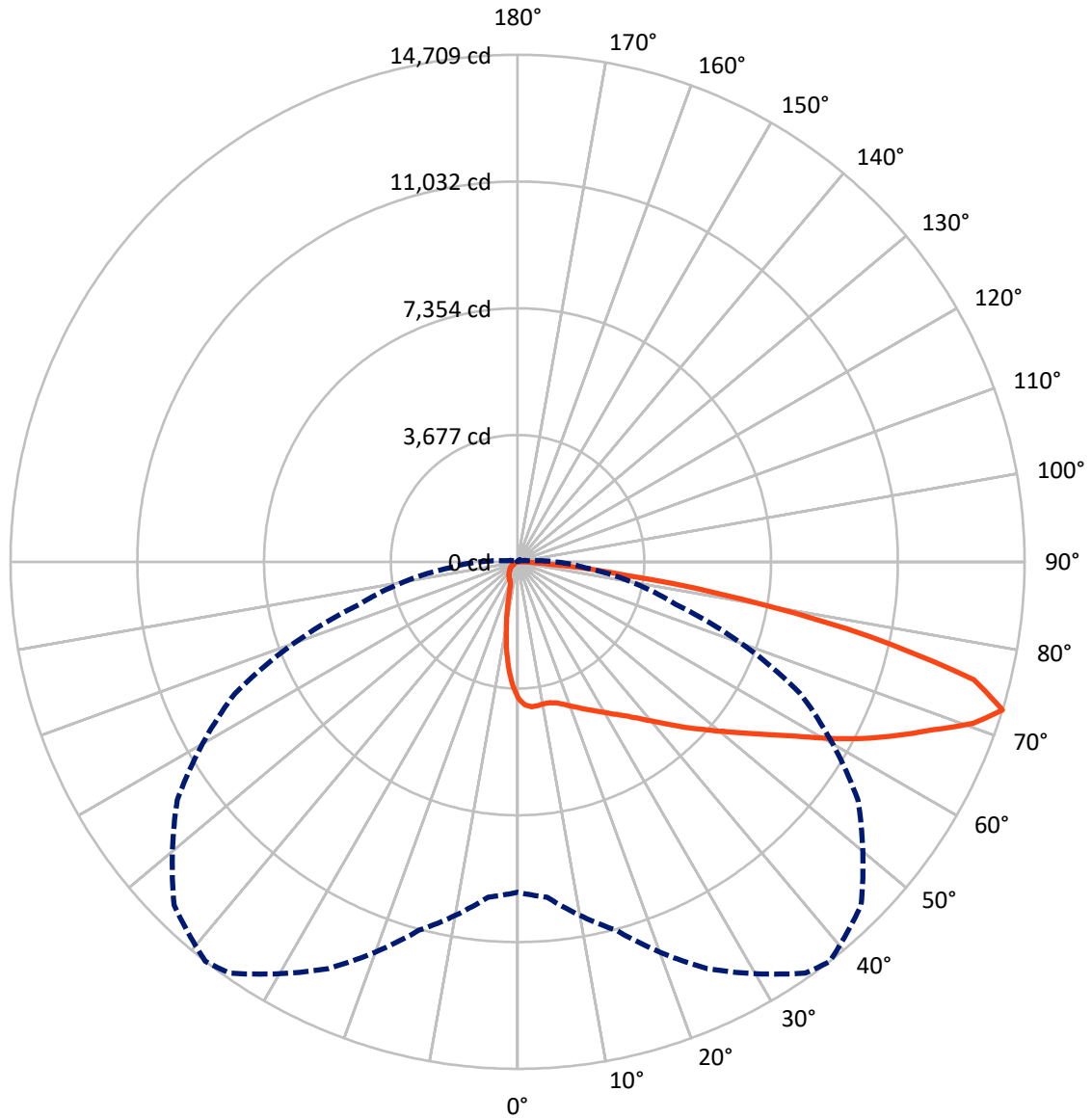
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1817.2	0.0	1817.2
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	19777.0	0.0	19777.0
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	21594.2	0.0	21594.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	338.4	1.6
10°-20°	827.5	3.8
20°-30°	1316.1	6.1
30°-40°	1978.6	9.2
40°-50°	3018.6	14.0
50°-60°	4266.2	19.8
60°-70°	5351.3	24.8
70°-80°	4001.3	18.5
80°-90°	496.1	2.3
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°	21594.2	100.0
0°-180°	21594.2	100.0

**Coefficient of Utilization**



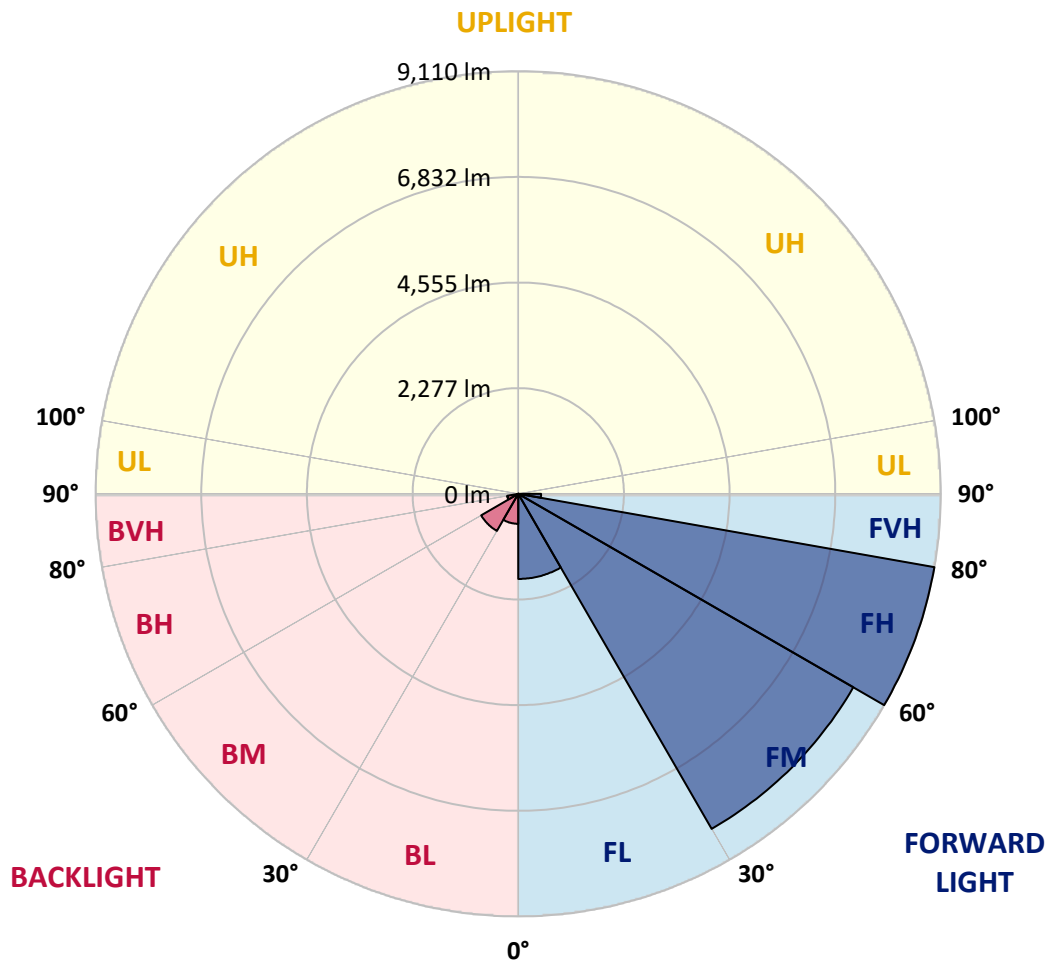
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1835.0	8.5			
FM (30°-60°)	8340.6	38.6			
FH (60°-80°)	9109.8	42.2			G4/12000
FVH (80°-90°)	491.5	2.3			G3/500
BL (0°-30°)	647.1	3.0	B2/1000		
BM (30°-60°)	922.8	4.3	B1/1000		
BH (60°-80°)	242.7	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°	35°	38°	45°	55°	65°	75°	85°
0°	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1
2.5°	4215.1	4215.9	4206.0	4189.9	4169.3	4158.5	4140.6	4111.9	4081.4	4026.7	3967.6
5°	4301.1	4301.1	4288.6	4267.0	4233.9	4224.0	4189.9	4144.2	4081.4	3992.6	3893.1
7.5°	4292.2	4294.0	4276.9	4254.5	4221.3	4212.4	4171.1	4120.0	4042.0	3934.3	3807.0
10°	4245.5	4250.0	4236.6	4225.8	4195.3	4185.4	4146.9	4095.7	4017.8	3902.9	3756.7
12.5°	4198.0	4202.5	4207.0	4216.8	4198.0	4194.4	4163.9	4120.9	4046.5	3927.1	3762.1
15°	4167.5	4176.5	4208.7	4247.3	4251.8	4248.2	4228.5	4188.1	4112.8	3989.1	3800.7
17.5°	4167.5	4181.8	4249.2	4322.7	4348.7	4351.4	4334.3	4277.9	4188.1	4055.4	3836.6
20°	4202.5	4222.2	4327.1	4431.2	4474.2	4474.2	4441.1	4362.2	4257.2	4115.5	3860.8
22.5°	4292.2	4318.2	4450.0	4570.2	4615.9	4606.0	4561.2	4446.4	4328.9	4183.7	3891.3
25°	4468.8	4488.6	4625.8	4746.9	4774.6	4752.2	4695.7	4548.7	4420.4	4276.0	3946.9
27.5°	4696.6	4699.3	4841.0	4943.3	4926.2	4910.9	4840.1	4676.9	4552.2	4407.9	4042.8
30°	4946.8	4946.8	5071.5	5149.5	5097.5	5084.9	5014.1	4832.0	4720.8	4587.2	4179.2
32.5°	5189.0	5199.7	5301.1	5350.4	5292.1	5279.5	5210.5	5028.5	4945.0	4860.7	4391.7
35°	5423.0	5431.1	5527.1	5554.0	5498.4	5502.0	5452.6	5298.4	5267.0	5256.3	4711.9
37.5°	5649.9	5651.7	5749.5	5766.6	5738.7	5769.3	5773.7	5637.4	5695.7	5782.7	5163.0
40°	5857.1	5858.9	5955.8	5999.7	6047.2	6086.7	6121.7	6049.0	6241.8	6443.6	5700.1
42.5°	6023.0	6041.8	6164.7	6248.1	6373.6	6449.0	6544.0	6540.5	6892.1	7195.2	6349.4
45°	6169.2	6201.5	6372.8	6519.0	6734.2	6854.3	7003.3	7119.8	7623.9	8031.9	7006.8
47.5°	6362.0	6392.5	6588.0	6827.5	7114.4	7272.3	7518.9	7770.9	8428.3	8853.3	7648.9
50°	6633.7	6620.3	6813.2	7156.6	7525.2	7732.3	8083.9	8461.4	9226.4	9569.0	8026.5
52.5°	6923.4	6918.0	7060.7	7514.4	8009.4	8251.6	8716.1	9175.4	9989.6	10062.3	8199.6
55°	7282.2	7243.6	7363.8	7922.4	8584.3	8844.4	9391.5	9882.0	10597.7	10340.3	8286.6
57.5°	7657.9	7594.3	7709.0	8377.1	9232.8	9540.4	10139.4	10570.7	11002.1	10530.4	8285.7
60°	8046.2	7970.9	8107.3	8945.7	10038.1	10394.1	10950.2	11036.2	11379.7	10626.3	8224.7
62.5°	8370.9	8326.1	8528.7	9553.8	10937.6	11287.4	11562.6	11459.5	11698.1	10700.8	8082.1
65°	8714.3	8717.0	9044.4	10263.1	11893.5	12129.4	12152.8	12008.4	11964.4	10685.6	7599.7
67.5°	9178.9	9221.9	9768.1	11226.4	12823.6	13005.6	13003.8	12603.0	12159.0	10079.3	6529.7
70°	9670.4	9771.7	10602.1	12328.6	13838.8	14023.5	13928.5	12981.4	11448.7	8150.3	4621.3
72.5°	9587.9	9763.6	11065.9	13023.6	14567.9	14708.7	14090.8	12051.4	9048.9	4737.0	1967.6
75°	7397.0	7600.5	10146.6	12334.8	13802.9	13676.4	12107.0	9378.0	4945.0	1321.9	443.0
77.5°	3907.5	4015.9	6702.8	9396.8	10762.7	10498.2	8528.7	5202.4	1507.5	327.3	199.1
80°	2046.5	2071.7	2921.0	5331.6	6642.7	6644.5	5054.5	2285.1	621.5	167.7	133.6
82.5°	1095.9	1117.4	1543.4	2463.6	3480.5	3155.0	1935.3	1257.3	361.4	95.0	128.3
85°	263.6	268.2	875.3	1125.5	1368.5	977.6	574.9	1055.5	97.7	55.6	104.1
87.5°	101.4	103.1	324.6	487.0	348.9	226.0	269.0	393.7	12.6	21.5	16.1
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°	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1	3971.1
2.5°	3931.6	3908.3	3850.9	3778.3	3713.7	3667.0	3597.2	3551.4	3520.9	3520.0	3508.3
5°	3832.1	3784.6	3660.8	3513.7	3380.1	3260.0	3118.3	3006.1	2922.7	2909.3	2880.5
7.5°	3725.4	3647.4	3457.3	3227.6	3003.4	2775.6	2511.1	2346.9	2206.2	2138.9	2131.8
10°	3659.9	3550.5	3280.5	2948.7	2597.2	2226.8	1880.6	1641.2	1468.1	1418.7	1382.0
12.5°	3646.4	3502.1	3144.3	2686.9	2184.7	1695.0	1312.1	1057.3	919.3	875.3	863.6
15°	3659.9	3479.6	3029.5	2427.7	1766.8	1202.6	880.7	732.7	680.7	668.1	667.3
17.5°	3668.0	3452.8	2899.4	2139.8	1361.4	859.2	674.4	631.4	623.3	622.4	624.2
20°	3667.0	3411.5	2744.2	1818.8	1012.5	675.3	609.8	600.8	599.1	600.0	599.1
22.5°	3660.8	3363.1	2573.9	1487.8	765.0	603.5	582.0	576.6	575.8	575.8	575.8
25°	3672.4	3324.5	2386.4	1171.2	630.5	570.4	556.9	552.4	551.6	551.6	549.7
27.5°	3714.6	3303.0	2181.0	901.3	569.5	540.8	530.1	529.1	526.4	525.6	527.3
30°	3782.7	3303.0	1956.0	701.3	532.8	510.3	502.2	500.4	499.5	498.7	499.5
32.5°	3902.9	3328.0	1710.2	583.0	497.7	476.2	470.8	473.5	470.8	470.8	470.8
35°	4120.0	3403.4	1452.8	508.5	460.9	443.0	437.6	441.3	439.4	439.4	438.6
37.5°	4436.6	3543.3	1193.7	463.6	428.7	409.9	402.7	408.0	406.2	406.2	405.3
40°	4822.2	3746.9	947.0	429.5	397.3	377.6	371.3	374.0	369.5	369.5	371.3
42.5°	5298.4	4005.2	731.8	396.4	365.9	347.1	343.5	340.8	332.7	328.3	329.1
45°	5827.5	4274.2	570.4	364.1	336.3	321.1	315.7	308.5	295.0	286.1	287.0
47.5°	6300.1	4481.4	463.6	332.7	309.4	297.7	289.7	276.2	256.5	245.7	246.6
50°	6548.6	4512.8	394.6	301.4	284.3	272.7	261.0	240.3	217.1	205.4	204.5
52.5°	6612.2	4365.7	343.5	272.7	259.2	245.7	230.5	202.7	176.7	164.1	162.4
55°	6635.5	4141.5	297.7	245.7	232.2	217.1	197.3	165.9	141.7	129.1	128.3
57.5°	6558.4	3807.0	261.9	221.5	205.4	186.5	162.4	132.7	109.5	99.6	99.6
60°	6387.2	3354.1	234.1	195.5	177.6	156.0	131.0	103.1	81.6	73.5	73.5
62.5°	6045.5	2767.5	208.1	168.6	151.6	129.1	105.8	78.1	57.4	52.9	53.8
65°	5400.6	2099.4	182.0	144.4	129.1	106.8	82.5	55.6	38.6	38.6	40.3
67.5°	4404.3	1458.2	155.1	122.9	111.2	87.0	62.8	38.6	26.9	30.5	34.1
70°	2915.6	817.9	132.7	101.4	95.0	69.0	46.7	26.0	21.5	28.7	34.9
72.5°	1100.4	318.4	111.2	81.6	82.5	52.9	33.2	19.7	19.7	31.4	41.3
75°	306.7	156.0	79.8	60.1	64.6	38.6	24.2	17.0	18.8	35.9	48.4
77.5°	180.3	114.8	52.0	34.9	44.0	26.9	16.1	13.4	16.1	30.5	46.7
80°	145.3	61.0	30.5	18.0	24.2	15.3	10.8	8.1	4.5	11.6	24.2
82.5°	145.3	36.8	14.3	12.6	12.6	8.1	5.4	3.6	0.9	0.0	6.2
85°	97.7	15.3	8.9	8.1	6.2	2.7	1.8	0.9	0.0	0.0	0.0
87.5°	16.1	6.2	3.6	1.8	0.9	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)