

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: P647497

Luminaire Tested: **GALN-SA6D-835-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647497  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-835-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 1200mA 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: 29545.7 lumens  
Efficiency: N/A  
Efficacy: 80.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

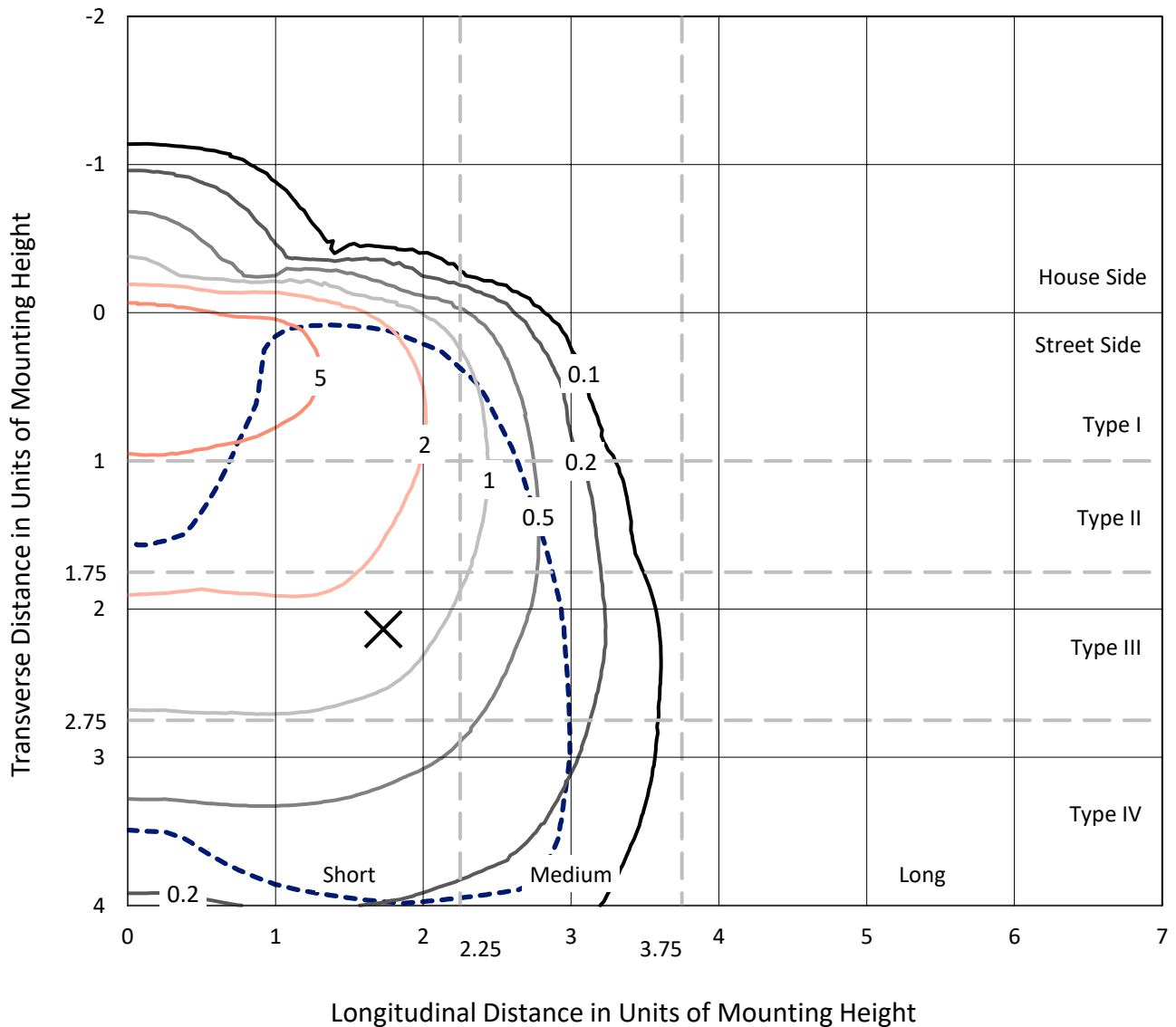
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

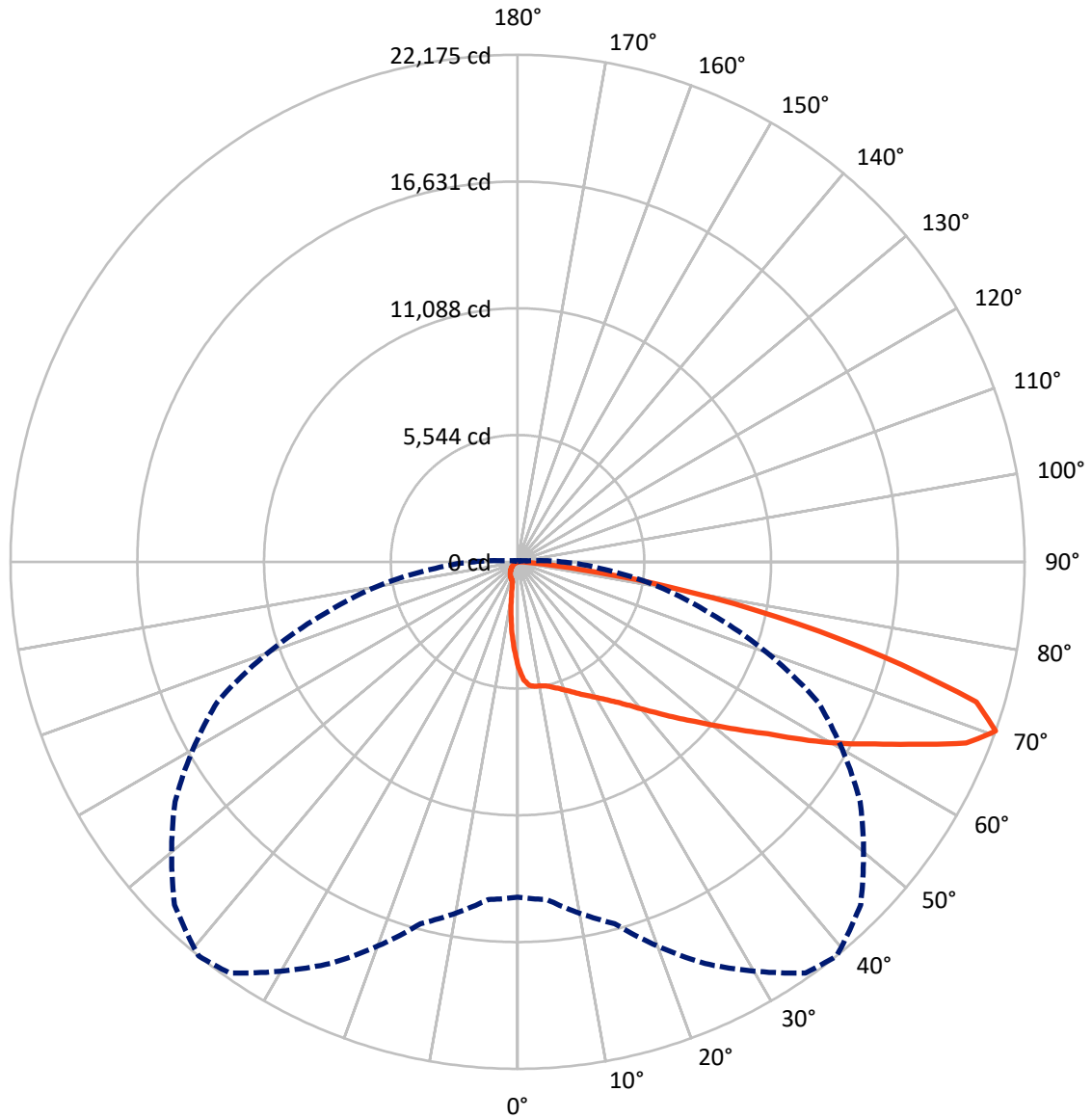
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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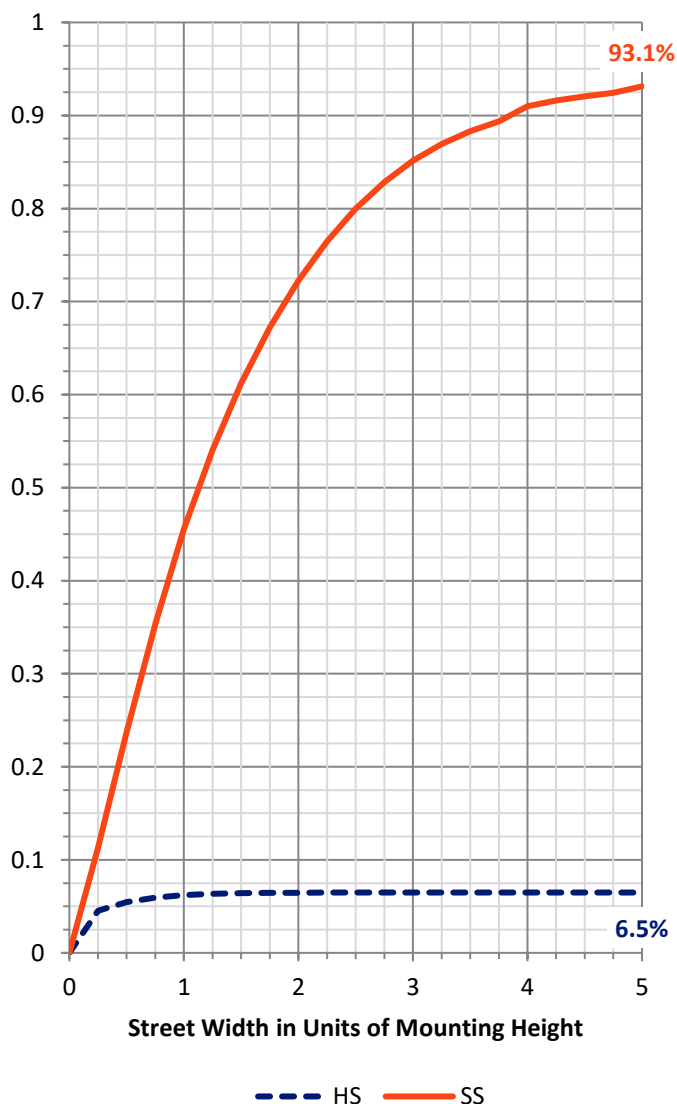
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1926.5	0.0	1926.5
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	27619.2	0.0	27619.2
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	29545.7	0.0	29545.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	393.2	1.3
10°-20°	1021.8	3.5
20°-30°	1711.9	5.8
30°-40°	2654.9	9.0
40°-50°	4207.2	14.2
50°-60°	6167.2	20.9
60°-70°	7904.8	26.8
70°-80°	4967.1	16.8
80°-90°	517.5	1.8
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°	29545.7	100.0
0°-180°	29545.7	100.0

**Coefficient of Utilization**

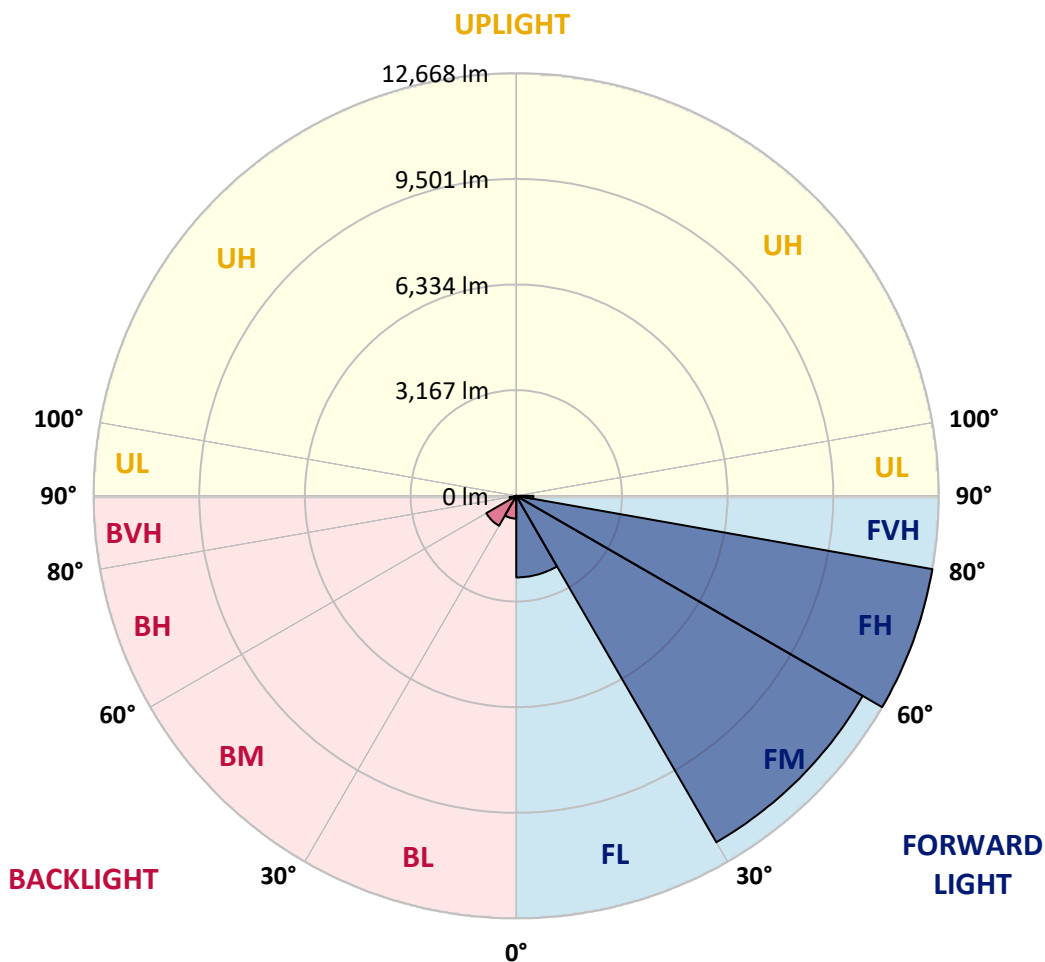


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2444.8	8.3			
FM (30°-60°)	11992.5	40.6			
FH (60°-80°)	12668.2	42.9			G5
FVH (80°-90°)	513.7	1.7			G4/750
BL (0°-30°)	682.2	2.3	B2/1000		
BM (30°-60°)	1036.8	3.5	B2/2500		
BH (60°-80°)	203.7	0.7	B1/500		G1/500
BVH (80°-90°)	3.8	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°	39°	45°	55°	65°	75°	85°
0°	4610.1	4610.1	4610.1	4610.1	4610.1	4610.1	4610.1	4610.1	4610.1	4610.1	4610.1
2.5°	5326.9	5309.0	5285.2	5257.4	5178.0	5164.0	5116.4	5015.2	4894.1	4794.8	4657.8
5°	5579.0	5589.0	5571.1	5521.5	5463.9	5430.1	5370.6	5213.7	5056.8	4856.3	4632.0
7.5°	5636.6	5656.5	5634.6	5586.9	5531.3	5495.6	5448.0	5313.0	5130.3	4902.0	4594.3
10°	5630.6	5654.5	5640.6	5596.9	5551.2	5517.5	5465.9	5358.6	5211.7	4971.5	4606.2
12.5°	5620.7	5652.5	5650.5	5628.7	5590.9	5565.1	5533.4	5438.1	5301.1	5072.7	4671.7
15°	5592.9	5632.7	5668.4	5686.2	5688.3	5688.3	5648.5	5547.2	5416.2	5205.8	4757.0
17.5°	5604.9	5650.5	5739.9	5791.5	5827.2	5823.2	5781.5	5672.4	5527.4	5342.8	4846.4
20°	5678.3	5739.9	5864.9	5968.2	6003.9	5992.0	5936.4	5809.3	5644.6	5459.9	4933.8
22.5°	5859.0	5914.5	6071.4	6192.5	6218.4	6186.6	6107.2	5934.4	5785.5	5586.9	5039.0
25°	6129.0	6194.5	6339.5	6430.8	6430.8	6412.9	6301.7	6099.2	5944.4	5763.7	5176.0
27.5°	6456.6	6512.2	6655.1	6736.5	6688.9	6637.3	6526.1	6281.9	6132.9	5986.0	5340.8
30°	6788.1	6823.9	6974.8	7010.5	6960.9	6895.3	6776.2	6532.0	6401.0	6287.8	5579.0
32.5°	7101.8	7179.2	7304.4	7296.4	7228.9	7197.2	7088.0	6827.8	6754.4	6742.5	5912.6
35°	7415.6	7475.1	7586.3	7614.0	7554.5	7548.6	7469.1	7276.6	7278.5	7356.0	6432.7
37.5°	7685.5	7739.2	7870.2	7931.8	7943.7	7973.4	7941.7	7814.7	7995.3	8207.7	7121.7
40°	7911.9	7987.4	8154.1	8261.4	8384.4	8493.6	8499.6	8527.4	8890.7	9256.0	8021.1
42.5°	8088.6	8193.9	8436.0	8634.6	8916.5	9055.5	9166.7	9319.6	9931.1	10477.1	9081.3
45°	8318.9	8440.0	8741.8	9053.5	9494.3	9722.6	9877.5	10286.4	11154.1	11898.6	10169.3
47.5°	8700.1	8763.6	9071.4	9526.1	10105.8	10431.4	10733.2	11352.6	12466.5	13133.6	11074.7
50°	9190.5	9232.2	9464.5	10095.8	10846.4	11275.2	11825.2	12553.8	13828.5	14158.0	11586.9
52.5°	9732.5	9746.4	9921.2	10723.3	11676.3	12216.3	12831.8	13731.2	14938.3	14888.7	11926.4
55°	10361.9	10342.0	10490.9	11404.2	12659.1	13276.5	13993.2	14936.4	15901.2	15406.9	12121.0
57.5°	11082.6	11029.0	11174.0	12307.6	13917.8	14656.4	15385.0	15976.6	16647.8	15841.7	12214.3
60°	11837.1	11729.9	11902.6	13322.2	15400.9	16101.8	16707.3	16866.1	17434.0	16187.1	12053.5
62.5°	12438.7	12440.6	12762.3	14402.3	16925.7	17539.2	17860.9	18003.8	18111.0	16111.7	11207.7
65°	13377.8	13409.5	13923.8	15901.2	18690.8	19222.8	19443.2	18978.7	18140.8	15174.5	9937.1
67.5°	14346.7	14447.9	15389.0	17966.1	20729.8	21158.6	20874.7	19167.2	17330.8	13036.2	7534.7
70°	14662.3	14829.1	16379.7	19387.6	21952.8	22175.2	21214.2	18287.7	14487.6	8716.0	3792.1
72.5°	13435.3	13705.3	15809.9	18869.4	21172.6	20979.9	18980.6	15337.4	9210.4	3309.7	1157.5
75°	9474.5	9593.6	13139.5	15653.0	17028.9	16482.9	14438.0	9887.4	3788.2	929.2	397.1
77.5°	4892.1	4834.5	7814.7	10385.7	12144.8	11579.0	9454.6	5118.4	1435.5	387.2	246.2
80°	2529.4	2571.1	3381.2	5442.0	7413.5	6821.9	5041.0	2372.6	764.4	214.5	188.6
82.5°	1417.6	1330.2	1943.7	2376.6	3466.6	2718.0	1933.8	1679.7	333.6	129.0	178.7
85°	258.1	270.0	1066.1	1284.6	1203.2	764.4	623.4	1121.7	97.2	71.5	125.0
87.5°	4.0	4.0	206.5	369.3	234.3	107.2	196.5	160.8	19.9	27.8	21.8
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°	4610.1	4610.1	4610.1	4610.1	4610.1	4610.1	4610.1	4610.1	4610.1	4610.1	4610.1
2.5°	4588.3	4512.9	4371.9	4232.9	4056.2	3911.2	3814.0	3712.8	3609.5	3617.5	3641.3
5°	4508.9	4377.8	4099.9	3806.1	3524.1	3270.0	3019.8	2795.5	2704.2	2620.8	2624.7
7.5°	4429.5	4244.8	3837.8	3377.2	2950.3	2517.5	2203.8	1945.7	1808.7	1705.5	1675.7
10°	4393.7	4149.5	3597.6	2964.2	2358.7	1886.2	1483.1	1272.7	1109.8	1058.2	1072.2
12.5°	4409.6	4101.9	3381.2	2590.9	1870.3	1314.3	1032.4	925.2	889.5	883.5	879.5
15°	4439.4	4068.2	3168.7	2178.0	1373.9	976.8	867.6	847.8	843.8	839.8	841.8
17.5°	4479.1	4038.3	2942.4	1790.9	1054.2	853.7	822.0	812.0	810.0	810.0	810.0
20°	4518.8	4004.6	2690.2	1445.4	879.5	806.1	786.2	780.3	778.3	778.3	776.3
22.5°	4564.5	3974.8	2434.1	1135.7	810.0	772.4	754.5	750.5	748.5	746.5	746.5
25°	4630.0	3937.1	2162.1	929.2	766.4	740.6	722.7	718.7	716.8	708.8	710.8
27.5°	4717.3	3909.3	1882.2	802.1	726.7	700.9	689.0	683.0	679.0	673.1	675.0
30°	4836.5	3885.5	1584.4	732.7	681.0	659.1	647.2	643.3	639.3	633.4	633.4
32.5°	5043.0	3895.4	1270.7	677.1	639.3	613.5	601.6	597.6	593.7	587.7	587.7
35°	5352.7	3953.0	1016.6	629.4	589.7	563.8	551.9	551.9	546.0	538.1	536.0
37.5°	5859.0	4099.9	816.0	583.7	542.0	518.2	504.3	500.3	494.4	482.5	480.4
40°	6456.6	4328.2	686.9	538.1	498.4	474.5	462.6	450.7	434.8	422.9	420.9
42.5°	7207.0	4562.5	595.6	492.4	456.6	434.8	420.9	401.1	377.2	361.4	359.4
45°	7989.3	4776.9	534.1	450.7	416.9	399.1	383.2	351.4	321.7	301.8	299.8
47.5°	8573.1	4816.6	484.4	411.0	383.2	365.3	343.5	303.8	264.0	246.2	240.2
50°	8849.0	4624.0	432.8	371.3	349.5	329.6	301.8	256.1	212.4	190.6	186.7
52.5°	8946.3	4290.5	391.1	335.5	315.7	291.8	258.1	206.5	166.8	144.9	143.0
55°	8906.6	3869.6	353.4	301.8	276.0	248.2	214.5	164.8	123.1	105.2	101.2
57.5°	8698.1	3333.5	315.7	268.0	236.2	208.4	170.8	123.1	83.4	67.5	65.5
60°	8136.2	2602.8	278.0	230.3	200.5	170.8	135.0	87.4	51.6	37.7	37.7
62.5°	7187.2	1931.8	242.3	192.6	168.7	137.0	95.3	55.6	27.8	19.9	17.9
65°	6005.9	1425.5	202.5	162.8	140.9	107.2	67.5	33.7	13.9	6.0	4.0
67.5°	4191.2	879.5	168.7	133.0	115.2	77.4	41.7	13.9	6.0	0.0	0.0
70°	1904.0	418.9	129.0	101.2	87.4	55.6	21.8	7.9	4.0	0.0	0.0
72.5°	591.6	220.4	91.3	73.4	59.6	35.7	11.9	6.0	4.0	0.0	0.0
75°	274.0	140.9	57.6	39.7	33.7	17.9	7.9	4.0	2.0	0.0	0.0
77.5°	204.5	109.2	33.7	21.8	17.9	11.9	6.0	4.0	2.0	0.0	0.0
80°	178.7	55.6	19.9	13.9	9.9	7.9	4.0	2.0	0.0	0.0	0.0
82.5°	160.8	27.8	11.9	7.9	6.0	4.0	2.0	2.0	0.0	0.0	0.0
85°	87.4	15.9	7.9	6.0	4.0	2.0	2.0	0.0	0.0	0.0	0.0
87.5°	15.9	7.9	6.0	4.0	4.0	2.0	2.0	2.0	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)