

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: P456504

Luminaire Tested: **GALN-SA7D-730-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456504
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36027 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

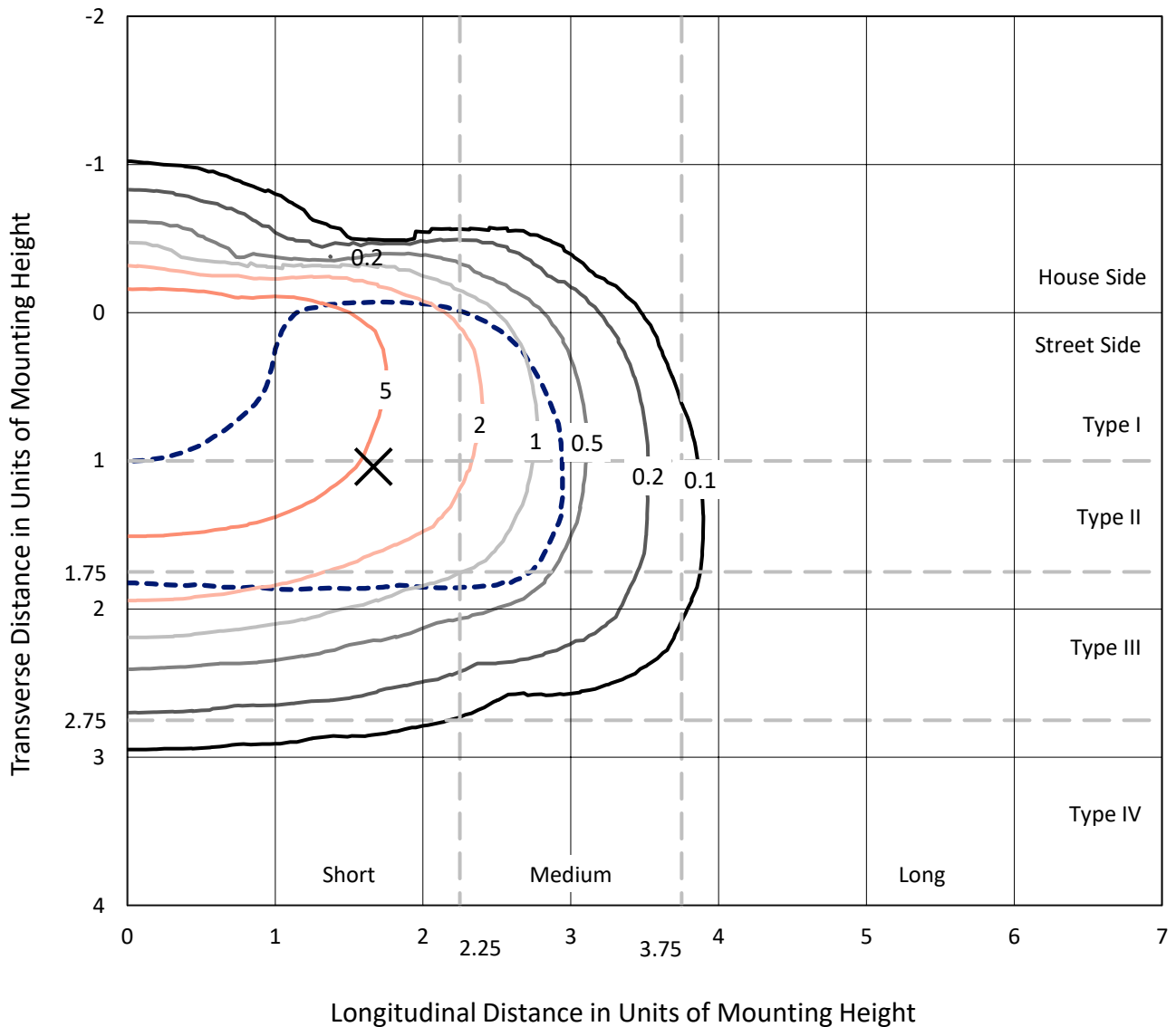
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

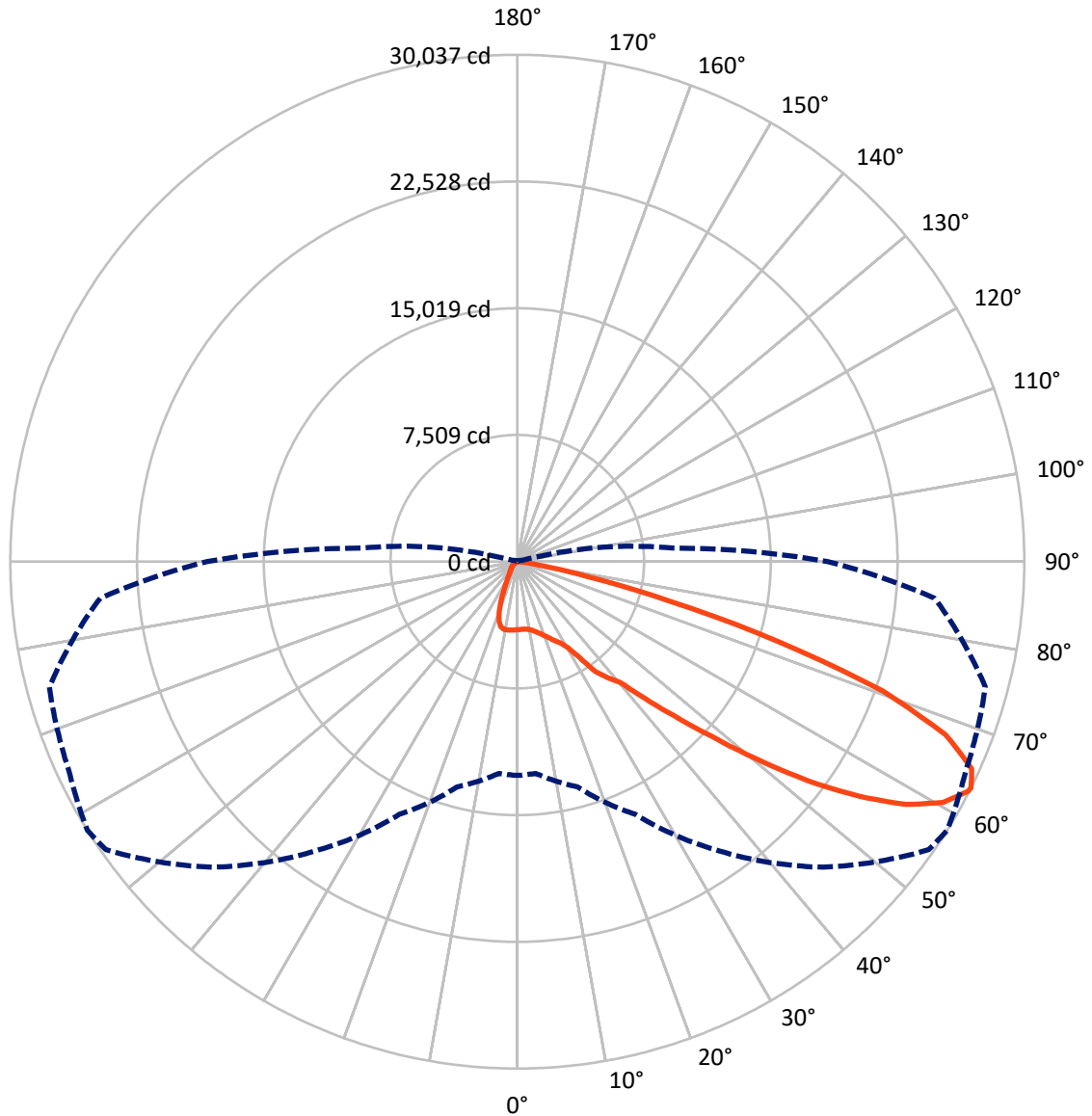
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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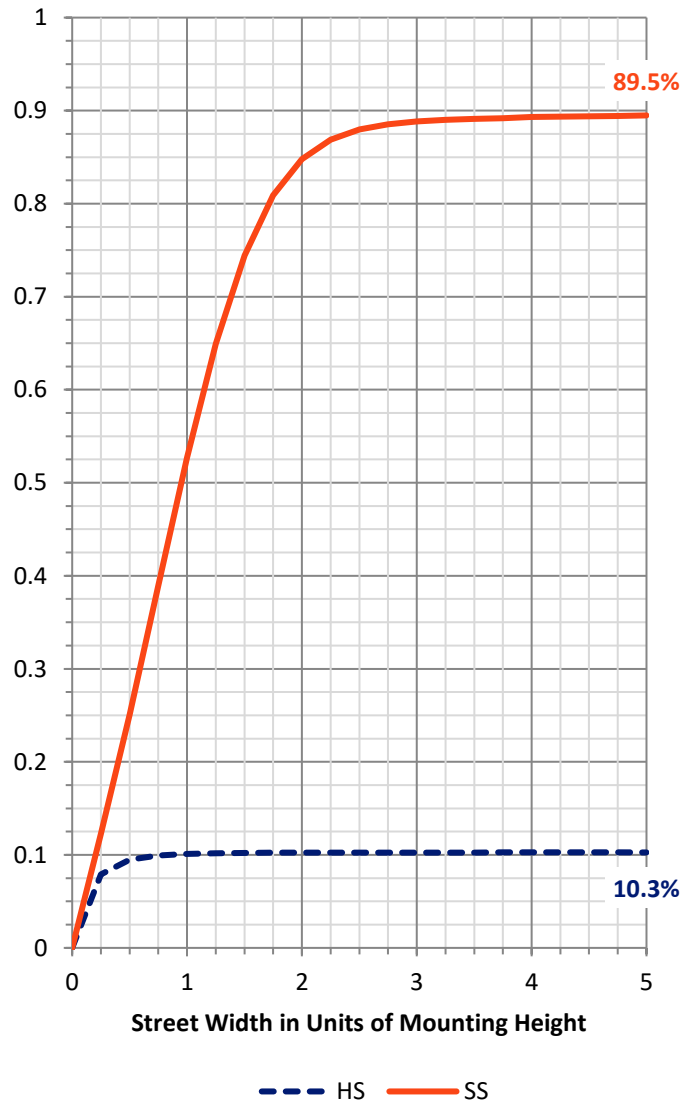
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3730.4	0.0	3730.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	32296.6	0.0	32296.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	36027.0	0.0	36027.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.6	1.0
10°-20°	1028.4	2.9
20°-30°	1784.8	5.0
30°-40°	3279.8	9.1
40°-50°	6174.1	17.1
50°-60°	10560.4	29.3
60°-70°	10111.6	28.1
70°-80°	2578.5	7.2
80°-90°	131.8	0.4
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°	36027.0	100.0
0°-180°	36027.0	100.0



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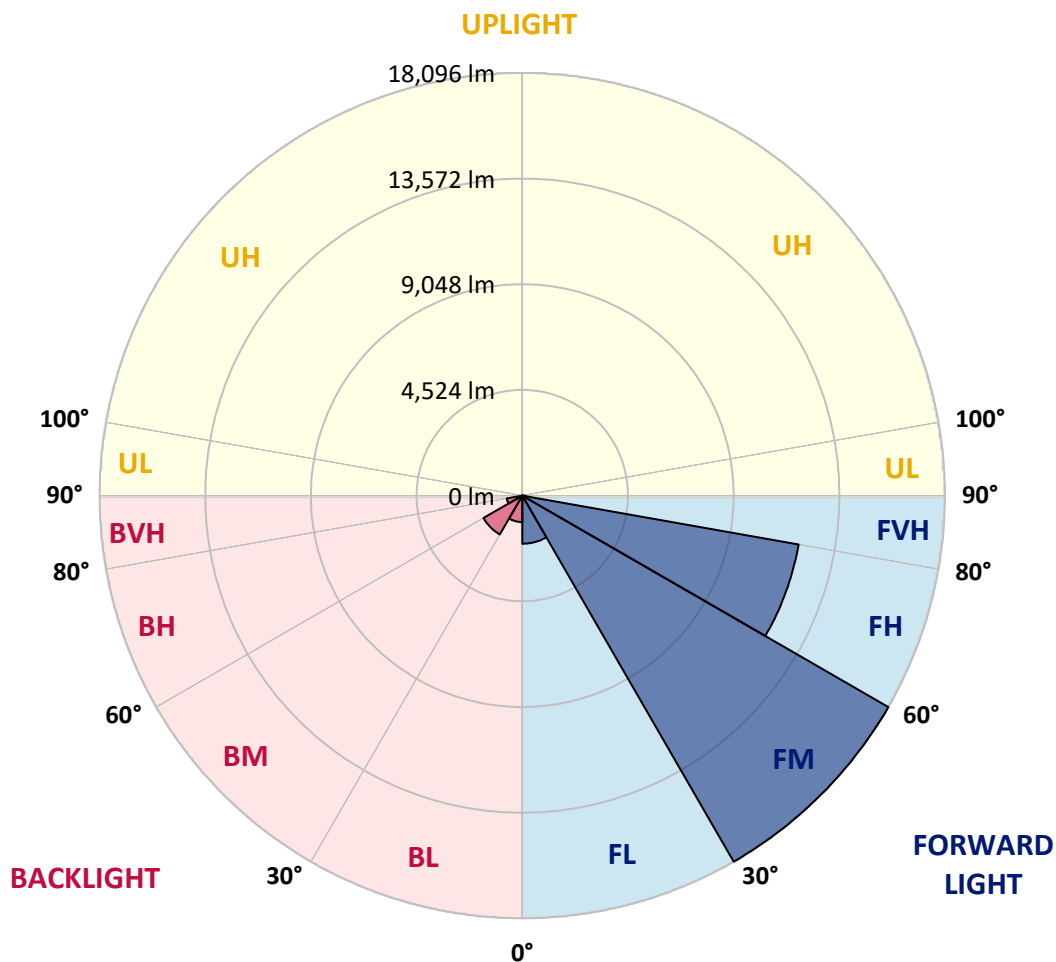
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2059.5	5.7			
FM	(30°-60°)	18095.6	50.2			
FH	(60°-80°)	12014.8	33.3			G5
FVH	(80°-90°)	126.7	0.4			G2/225
BL	(0°-30°)	1131.3	3.1	B3/2500		
BM	(30°-60°)	1918.7	5.3	B2/2500		
BH	(60°-80°)	675.3	1.9	B2/1000		G2/1000
BVH	(80°-90°)	5.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4033.4	4033.4	4033.4	4033.4	4033.4	4033.4	4033.4	4033.4	4033.4	4033.4	4033.4
2.5°	3933.0	3946.6	3960.1	3965.6	3984.5	4003.5	4017.1	4014.4	4036.1	4046.9	4046.9
5°	3775.7	3775.7	3810.9	3843.5	3897.7	3952.0	4003.5	4014.4	4055.1	4093.0	4106.6
7.5°	3642.8	3650.9	3678.0	3737.7	3810.9	3905.9	4009.0	4033.4	4103.9	4188.0	4223.2
10°	3580.4	3585.8	3621.1	3683.5	3775.7	3905.9	4049.6	4095.7	4204.2	4337.2	4386.0
12.5°	3566.8	3575.0	3610.2	3680.7	3786.5	3943.9	4139.1	4188.0	4345.3	4516.2	4589.4
15°	3591.2	3596.7	3631.9	3707.9	3824.5	4011.7	4258.5	4326.3	4513.5	4711.5	4806.4
17.5°	3678.0	3672.6	3697.0	3759.4	3889.6	4095.7	4402.3	4483.6	4703.3	4974.6	5037.0
20°	4046.9	4011.7	3990.0	3935.7	3987.3	4215.1	4575.8	4695.2	4966.4	5243.1	5286.5
22.5°	4841.7	4763.0	4608.4	4396.8	4234.1	4377.8	4784.7	4923.0	5272.9	5544.2	5544.2
25°	5853.4	5753.0	5598.4	5137.3	4738.6	4646.4	5020.7	5194.3	5606.6	5880.5	5791.0
27.5°	7120.1	7041.4	6740.4	6203.3	5593.0	5115.6	5294.6	5454.7	5902.2	6233.1	6046.0
30°	8150.8	8112.8	7866.0	7385.9	6713.2	6016.1	5804.6	5910.4	6295.5	6678.0	6485.4
32.5°	9021.5	9021.5	8769.2	8321.7	7692.4	7074.0	6669.8	6745.8	7114.7	7556.8	7198.8
35°	9979.0	9946.4	9743.0	9317.1	8611.9	8066.7	7901.3	8004.3	8338.0	8666.2	7784.6
37.5°	10985.3	10974.4	10762.9	10350.6	9775.5	9089.3	8701.4	8728.6	8899.4	9100.2	8470.9
40°	12078.4	12094.7	11818.0	11563.0	11020.5	10318.0	9574.8	9403.9	9564.0	10130.9	9737.6
42.5°	13369.5	13331.5	13212.2	12865.0	12428.3	12007.9	11115.5	11053.1	11194.1	11801.7	11375.9
45°	14869.5	14923.7	14717.6	14525.0	14232.0	13882.1	13136.2	13027.7	13182.3	14126.3	13521.4
47.5°	16372.1	16320.6	16453.5	16418.3	16575.6	16315.2	15656.1	15433.6	15805.2	16700.3	15810.7
50°	17516.8	17573.7	17850.4	18254.6	18929.9	19076.4	18444.4	18368.5	18533.9	19109.0	17858.5
52.5°	18260.0	18449.9	18883.8	19922.7	21140.6	22087.2	21607.1	21566.4	21498.6	21653.2	19816.9
55°	18745.5	18938.1	19505.0	21034.8	23131.5	24669.4	24693.8	24520.2	24072.7	23961.5	21647.8
57.5°	18447.1	18485.1	19293.4	21338.6	24235.4	26511.2	27308.6	27135.0	26307.7	25887.3	23264.4
60°	16581.0	16659.7	17785.3	20188.5	23755.3	27113.3	29041.8	28963.2	28057.2	27582.6	24522.9
62.5°	13274.6	13502.4	14660.6	17340.5	21523.0	26098.9	29744.3	29966.8	29261.5	28607.8	24919.0
63°	12667.0	12593.7	13817.0	16510.5	20931.7	25597.1	29755.2	30037.3	29315.8	28705.5	24810.5
65°	9376.8	9596.5	10391.3	13019.6	17419.1	23261.7	29085.2	29584.3	29115.1	28274.2	23608.9
67.5°	5264.8	5253.9	6132.8	8519.7	12192.3	18246.4	26299.6	27354.7	27257.1	25371.9	19570.1
70°	2576.8	2617.5	2978.2	4415.8	7071.3	12588.3	21853.9	22993.1	23028.4	19928.1	13532.2
72.5°	1166.3	1185.3	1443.0	2150.9	3634.6	6702.4	15059.3	16147.0	15946.3	12699.5	7472.7
75°	615.7	656.4	794.7	1082.3	1752.2	2764.0	8191.5	9243.9	8823.5	5801.9	2750.4
77.5°	455.7	469.2	539.8	689.0	938.5	1076.8	3534.3	4204.2	3938.4	2099.4	911.4
80°	333.6	344.5	401.4	488.2	591.3	547.9	1331.8	1527.1	1369.8	713.4	279.4
82.5°	203.4	206.1	292.9	363.5	371.6	306.5	439.4	472.0	493.7	401.4	151.9
85°	73.2	92.2	198.0	263.1	219.7	154.6	184.4	203.4	222.4	255.0	89.5
87.5°	8.1	10.8	94.9	127.5	62.4	57.0	67.8	75.9	81.4	94.9	43.4
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°	4033.4	4033.4	4033.4	4033.4	4033.4	4033.4	4033.4	4033.4	4033.4	4033.4	4033.4
2.5°	4057.8	4068.6	4060.5	4046.9	4044.2	4036.1	4019.8	4019.8	4019.8	4025.2	4019.8
5°	4117.4	4125.6	4106.6	4079.5	4049.6	4011.7	3971.0	3946.6	3943.9	3938.4	3924.9
7.5°	4231.4	4242.2	4198.8	4133.7	4052.3	3960.1	3873.3	3792.0	3754.0	3724.1	3724.1
10°	4396.8	4407.7	4320.9	4204.2	4041.5	3854.3	3648.2	3461.0	3314.6	3246.8	3230.5
12.5°	4594.8	4600.3	4456.5	4253.1	3984.5	3623.8	3184.4	2774.8	2490.0	2359.8	2346.2
15°	4811.8	4773.9	4584.0	4272.1	3821.8	3149.1	2389.6	1887.8	1592.2	1505.4	1537.9
17.5°	5031.5	4961.0	4681.6	4242.2	3455.6	2389.6	1605.8	1288.4	1196.2	1171.8	1171.8
20°	5237.7	5140.0	4752.2	4112.0	2820.9	1646.4	1190.8	1114.8	1098.5	1082.3	1085.0
22.5°	5443.8	5294.6	4814.5	3821.8	2102.1	1177.2	1066.0	1041.6	1019.9	998.2	995.5
25°	5644.5	5438.4	4838.9	3284.7	1432.2	1011.7	973.8	941.2	897.8	873.4	868.0
27.5°	5853.4	5612.0	4822.7	2606.6	1044.3	905.9	868.0	821.9	770.3	726.9	726.9
30°	6254.8	5942.9	4765.7	1874.3	878.8	797.5	748.6	675.4	618.4	575.0	572.3
32.5°	6802.7	6374.2	4570.4	1318.2	781.2	702.5	629.3	547.9	488.2	455.7	455.7
35°	7291.0	6808.2	4204.2	971.0	702.5	610.3	520.8	442.1	396.0	374.3	366.2
37.5°	8034.2	7442.9	3699.7	789.3	626.6	528.9	436.7	363.5	325.5	309.2	309.2
40°	9149.0	8218.6	3081.3	691.7	553.3	450.3	363.5	306.5	276.7	257.7	257.7
42.5°	10532.3	9168.0	2454.7	621.1	485.5	387.9	303.8	260.4	233.3	219.7	217.0
45°	12273.7	10168.8	1890.6	556.0	431.3	330.9	257.7	219.7	192.6	184.4	187.2
47.5°	14091.0	11050.4	1464.7	499.1	374.3	279.4	219.7	189.9	170.9	160.0	160.0
50°	15642.5	11658.0	1112.1	434.0	330.9	236.0	192.6	170.9	154.6	149.2	146.5
52.5°	16939.0	11834.3	851.7	377.0	290.2	203.4	170.9	154.6	141.0	132.9	132.9
55°	18043.0	11679.7	667.3	317.4	244.1	176.3	151.9	138.3	122.1	113.9	111.2
57.5°	18688.5	11183.3	509.9	263.1	198.0	146.5	132.9	116.6	97.6	84.1	84.1
60°	19014.0	10461.8	390.6	217.0	151.9	116.6	108.5	86.8	67.8	57.0	54.2
62.5°	18623.4	9504.3	295.7	170.9	113.9	86.8	73.2	62.4	43.4	32.5	32.5
63°	18382.0	9227.6	284.8	162.7	105.8	81.4	67.8	57.0	38.0	29.8	27.1
65°	16757.3	8020.6	233.3	130.2	84.1	57.0	46.1	40.7	27.1	13.6	10.8
67.5°	13307.1	6135.5	184.4	97.6	59.7	40.7	27.1	24.4	8.1	0.0	0.0
70°	8997.1	3962.8	143.8	70.5	40.7	24.4	13.6	10.8	2.7	0.0	0.0
72.5°	4692.5	2031.6	111.2	51.5	24.4	16.3	8.1	2.7	0.0	0.0	0.0
75°	1660.0	691.7	81.4	32.5	16.3	8.1	2.7	0.0	0.0	0.0	0.0
77.5°	501.8	257.7	51.5	24.4	10.8	5.4	0.0	0.0	0.0	0.0	0.0
80°	176.3	94.9	29.8	16.3	8.1	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	86.8	46.1	19.0	13.6	8.1	2.7	0.0	0.0	0.0	0.0	0.0
85°	48.8	29.8	16.3	13.6	8.1	5.4	0.0	0.0	0.0	0.0	0.0
87.5°	35.3	21.7	16.3	13.6	10.8	5.4	2.7	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)