

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: P953812

Luminaire Tested: **GALN-SB7B-730-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7B-730-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30605 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 256.7
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

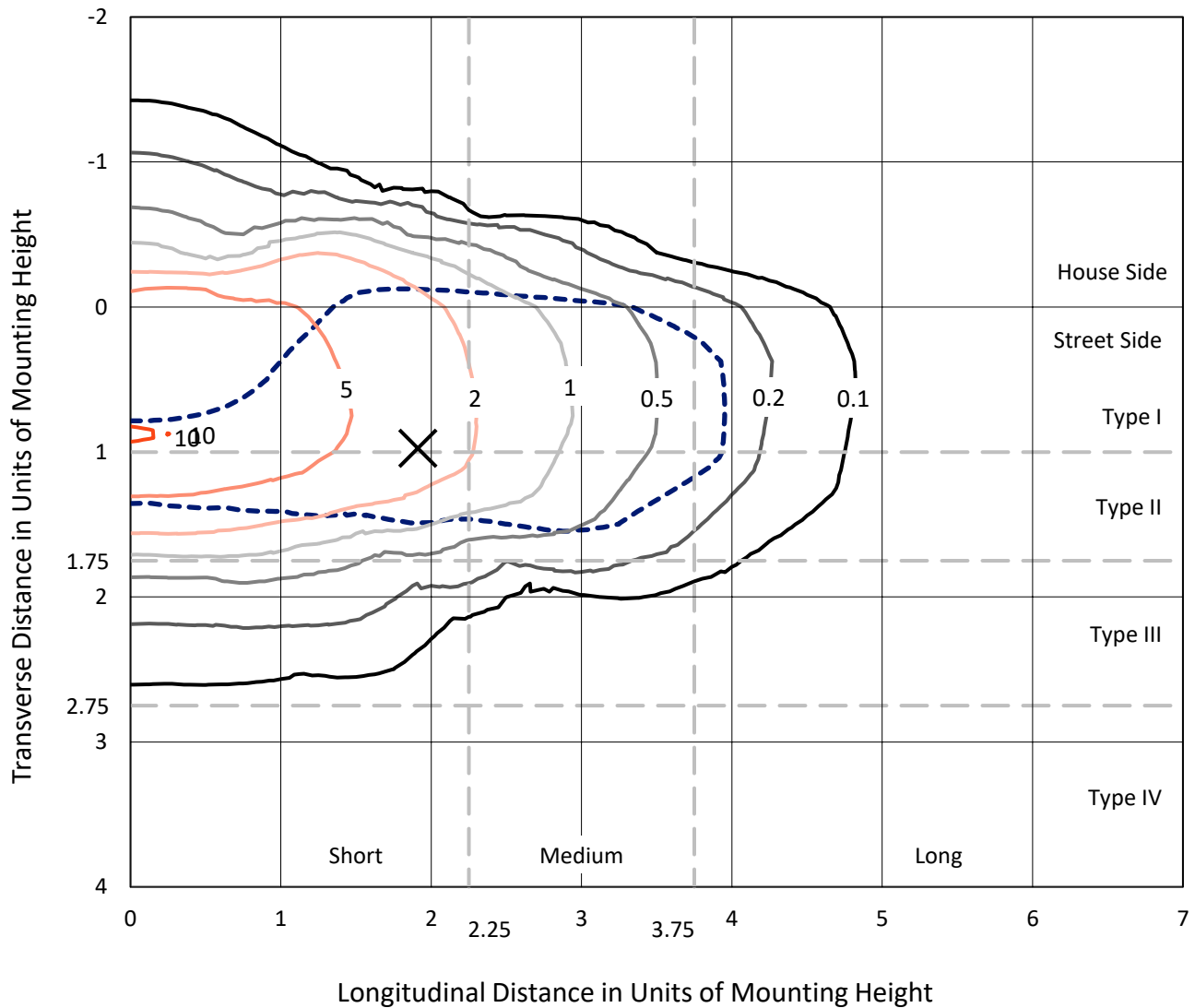


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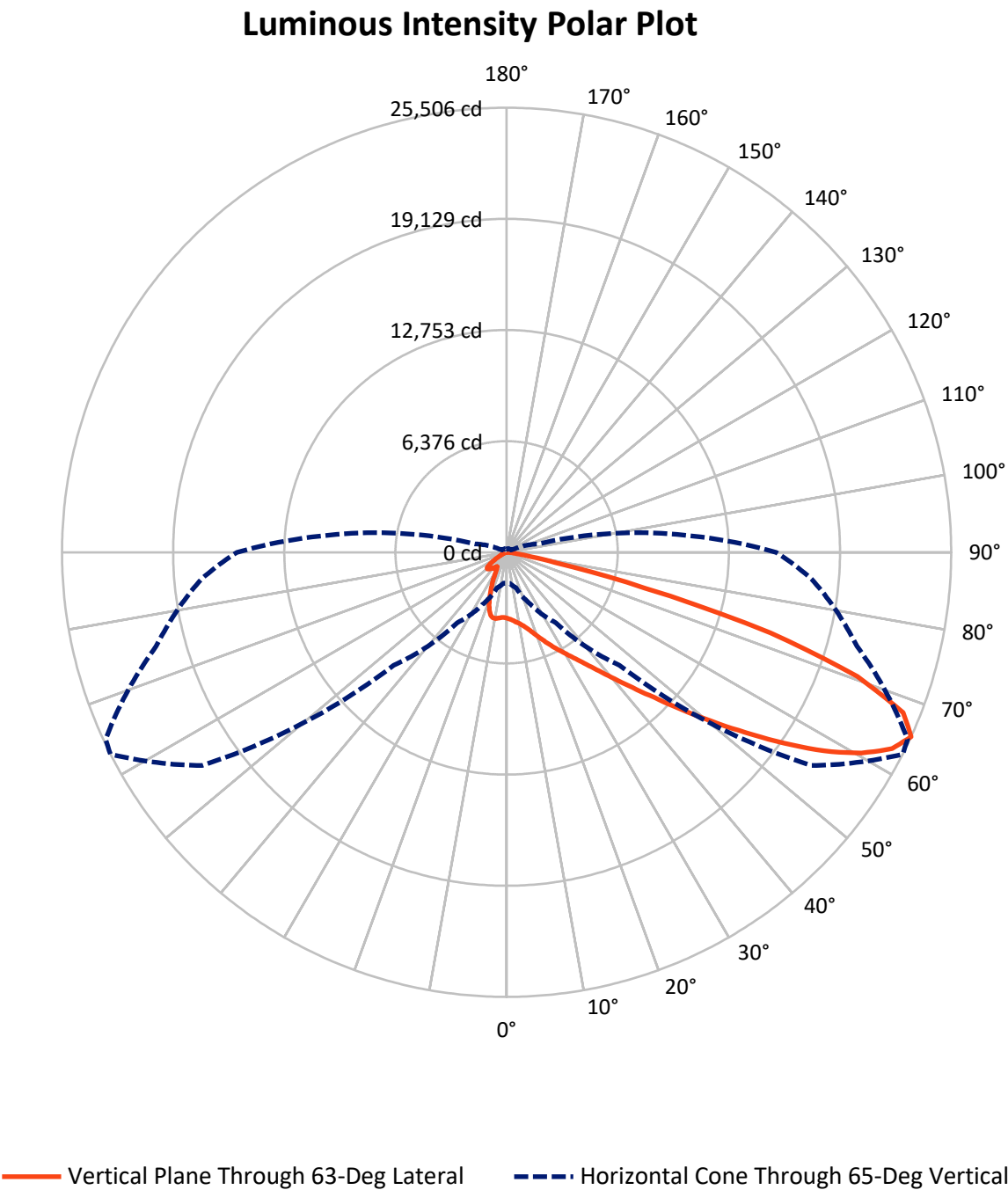
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
Type II - Short - N/A

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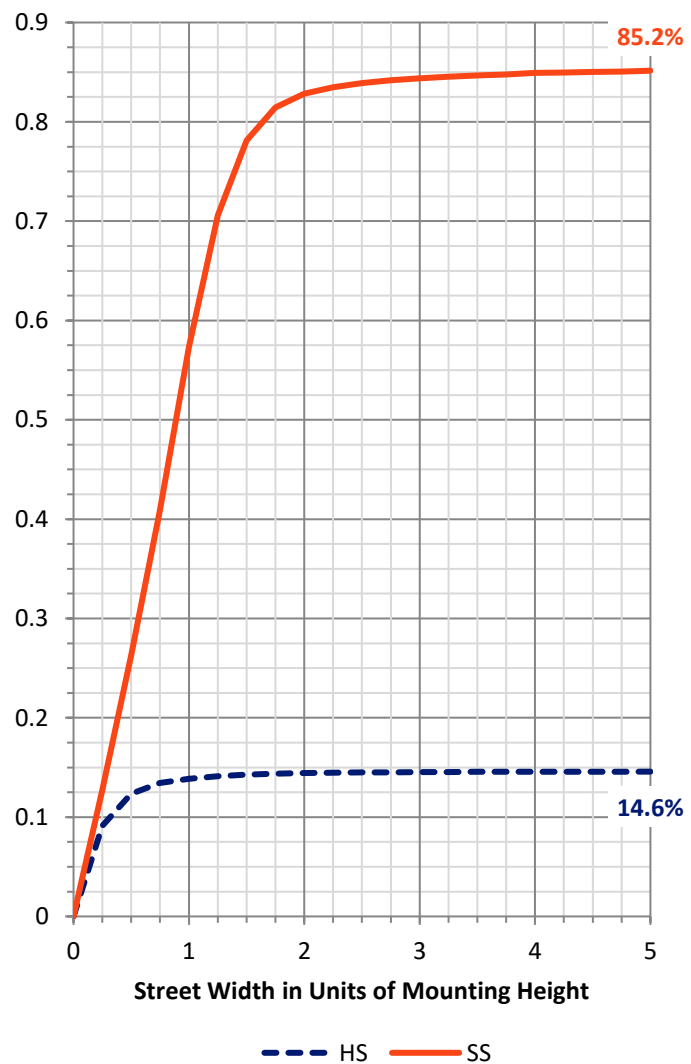
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4498.7	0.0	4498.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	26106.3	0.0	26106.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	30605.0	0.0	30605.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.9	1.2
10°-20°	987.5	3.2
20°-30°	1719.4	5.6
30°-40°	3099.1	10.1
40°-50°	6146.4	20.1
50°-60°	8372.4	27.4
60°-70°	6682.8	21.8
70°-80°	3024.1	9.9
80°-90°	217.4	0.7
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°	30605.0	100.0
0°-180°	30605.0	100.0

Coefficient of Utilization



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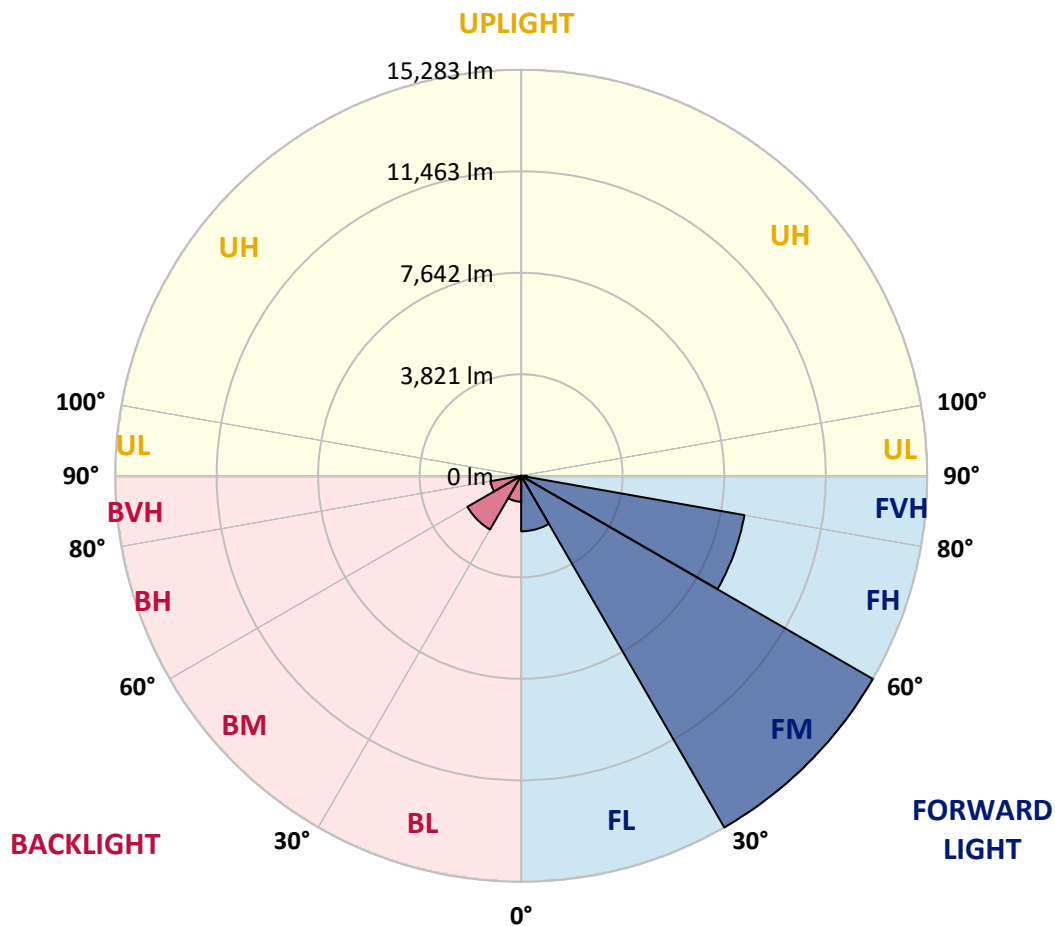
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2089.2	6.8			
FM	(30°-60°)	15283.4	49.9			
FH	(60°-80°)	8532.5	27.9			G4/12000
FVH	(80°-90°)	201.2	0.7			G2/225
BL	(0°-30°)	973.6	3.2	B2/1000		
BM	(30°-60°)	2334.6	7.6	B2/2500		
BH	(60°-80°)	1174.4	3.8	B3/2500		G3/2500
BVH	(80°-90°)	16.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3777.2	3777.2	3777.2	3777.2	3777.2	3777.2	3777.2	3777.2	3777.2	3777.2	3777.2
2.5°	3865.7	3855.1	3869.9	3863.6	3859.3	3850.9	3846.7	3842.5	3834.1	3827.8	3802.5
5°	3876.2	3869.9	3884.6	3897.2	3909.9	3922.5	3928.8	3937.3	3928.8	3912.0	3886.7
7.5°	3787.8	3783.6	3815.1	3853.0	3909.9	3958.3	4010.9	4040.4	4042.5	4036.2	4008.8
10°	3781.4	3770.9	3802.5	3848.8	3922.5	4008.8	4101.5	4164.6	4173.1	4200.4	4171.0
12.5°	3880.4	3869.9	3914.1	3964.6	4040.4	4131.0	4244.7	4333.1	4345.7	4383.6	4362.6
15°	4046.7	4032.0	4082.5	4147.8	4244.7	4347.8	4467.8	4547.8	4558.4	4604.7	4566.8
17.5°	4240.4	4225.7	4284.7	4354.1	4459.4	4600.5	4739.4	4827.9	4840.5	4870.0	4800.5
20°	4488.9	4469.9	4516.3	4579.4	4691.0	4859.5	5025.8	5152.1	5150.0	5150.0	5036.3
22.5°	4777.3	4747.9	4787.9	4838.4	4943.7	5147.9	5369.0	5518.5	5518.5	5459.5	5272.1
25°	5086.8	5057.4	5101.6	5147.9	5240.5	5472.1	5731.1	5916.4	5924.8	5823.8	5524.8
27.5°	5474.3	5436.4	5470.0	5524.8	5579.5	5815.3	6122.7	6337.5	6341.7	6185.9	5764.8
30°	6219.6	6112.2	6006.9	5948.0	5973.3	6207.0	6535.4	6773.3	6794.4	6579.6	6025.9
32.5°	7583.9	7562.9	7192.3	6708.1	6455.4	6628.1	6996.5	7282.9	7295.5	7019.7	6364.9
35°	9704.2	9678.9	9083.1	8160.8	7337.6	7192.3	7556.6	7895.6	7887.1	7575.5	6804.9
37.5°	12235.0	12211.8	11426.5	10192.6	8859.9	8045.0	8278.8	8634.6	8687.2	8278.8	7373.4
40°	14397.3	14311.0	13814.1	12624.5	10881.1	9459.9	9306.2	9542.0	9596.8	9112.5	8095.6
42.5°	16035.4	15961.7	15709.0	14965.8	13327.7	11552.8	10516.9	10607.4	10668.5	10087.4	8925.1
45°	16883.9	16867.0	16968.1	16898.6	15820.6	14121.5	12247.6	11870.7	11893.9	11167.5	9866.3
47.5°	17003.9	16995.5	17456.6	18109.3	17964.0	17018.6	14468.9	13445.6	13363.5	12386.6	10889.6
50°	16296.4	16279.6	17163.9	18387.2	19395.7	19452.6	16991.2	15220.5	15039.5	13647.7	11957.0
52.5°	14037.3	14033.0	15485.8	17521.8	19898.9	21583.3	19484.1	17170.2	16867.0	14982.6	13085.6
55°	10801.1	10879.0	12544.5	14951.0	18980.9	22608.7	21722.3	19334.6	18869.3	16325.9	14125.7
57.5°	7651.3	7765.0	9411.5	11554.9	16134.3	22002.3	23236.1	21503.3	21002.2	17665.0	15180.5
60°	4109.9	4211.0	5859.6	8417.7	12003.4	19741.0	24034.1	23385.6	22911.9	18936.7	16132.2
62.5°	2448.7	2482.4	3164.5	5434.2	8118.7	15081.6	23695.1	24819.4	24429.9	20004.2	16959.7
65°	1758.1	1764.4	2107.6	3318.2	4928.9	9163.1	21318.0	25505.8	25385.8	20808.5	17572.4
67.5°	1480.2	1475.9	1619.1	2204.4	3358.2	4590.0	16338.5	24535.2	25044.7	21318.0	17919.8
70°	1269.6	1275.9	1444.4	1614.9	2524.5	2598.2	8123.0	21362.2	22448.7	21452.8	17898.7
72.5°	945.4	966.4	1122.2	1471.7	1905.5	1787.6	2804.5	15839.5	17804.0	20212.6	16970.2
75°	667.4	678.0	789.6	1238.0	1421.2	1301.2	1431.7	8188.2	10706.4	15496.3	13889.9
77.5°	513.7	532.7	598.0	865.4	1400.1	913.8	875.9	2834.0	4354.1	9361.0	9523.1
80°	277.9	311.6	431.6	625.3	983.3	646.4	433.7	1128.5	1475.9	4377.3	3672.0
82.5°	143.2	160.0	301.1	450.6	560.1	564.3	214.8	469.5	608.5	1351.7	503.2
85°	56.8	69.5	202.1	248.4	288.5	277.9	96.9	189.5	219.0	374.8	153.7
87.5°	12.6	21.1	73.7	56.8	54.7	59.0	23.2	44.2	42.1	44.2	27.4
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°	3777.2	3777.2	3777.2	3777.2	3777.2	3777.2	3777.2	3777.2	3777.2	3777.2	3777.2
2.5°	3800.4	3792.0	3768.8	3743.5	3714.1	3697.2	3686.7	3684.6	3669.9	3659.3	3669.9
5°	3863.6	3855.1	3810.9	3758.3	3701.4	3657.2	3615.1	3577.2	3522.5	3511.9	3507.7
7.5°	3989.9	3966.7	3895.1	3823.6	3716.2	3587.7	3431.9	3253.0	3093.0	3044.5	3021.4
10°	4145.7	4114.1	4023.6	3897.2	3659.3	3309.8	2932.9	2583.4	2305.5	2227.6	2198.1
12.5°	4322.6	4295.2	4175.2	3941.5	3421.4	2787.7	2210.8	1777.0	1507.5	1440.1	1421.2
15°	4533.1	4493.1	4326.8	3874.1	2996.1	2118.1	1518.1	1261.2	1164.3	1151.7	1139.1
17.5°	4756.3	4691.0	4461.5	3632.0	2423.4	1505.4	1172.8	1099.1	1057.0	1044.3	1038.0
20°	4960.5	4876.3	4541.5	3265.6	1810.7	1172.8	1050.6	1002.2	964.3	949.6	941.2
22.5°	5164.7	5044.7	4541.5	2766.6	1358.0	1040.1	964.3	920.1	875.9	856.9	846.4
25°	5377.4	5217.4	4461.5	2210.8	1092.7	953.8	882.2	833.8	795.9	772.7	764.3
27.5°	5583.7	5362.7	4278.3	1684.4	972.7	878.0	806.4	760.1	724.3	707.4	707.4
30°	5779.5	5505.8	4021.5	1278.0	894.8	804.3	736.9	696.9	661.1	644.3	646.4
32.5°	6044.8	5686.9	3747.8	1048.5	827.5	734.8	673.8	635.9	604.3	591.6	591.6
35°	6413.3	5954.3	3511.9	1029.6	770.6	678.0	616.9	581.1	549.5	539.0	539.0
37.5°	6935.5	6385.9	3387.7	1155.9	724.3	627.4	570.6	532.7	503.2	494.8	492.7
40°	7579.7	6971.3	3455.1	1282.2	692.7	583.2	528.5	490.6	465.3	454.8	452.7
42.5°	8344.0	7693.4	3827.8	1379.1	671.6	545.3	488.5	446.4	429.5	425.3	425.3
45°	9222.0	8487.2	4398.4	1482.3	638.0	509.5	448.5	416.9	404.3	402.1	400.0
47.5°	10220.0	9358.9	5059.5	1610.7	604.3	475.8	416.9	395.8	385.3	381.1	381.1
50°	11209.6	10236.9	5739.5	1682.3	576.9	444.3	391.6	374.8	366.4	364.2	364.2
52.5°	12245.5	11140.1	6289.1	1614.9	553.7	419.0	370.6	357.9	349.5	347.4	347.4
55°	13233.0	11870.7	6383.8	1370.7	507.4	393.7	347.4	341.1	330.6	330.6	328.5
57.5°	14083.6	12237.1	5714.3	1006.4	461.1	355.8	324.2	317.9	309.5	307.4	305.3
60°	14864.7	12131.8	4411.0	678.0	410.6	317.9	294.8	290.6	282.1	271.6	269.5
62.5°	15304.8	11668.6	3017.2	442.2	360.0	277.9	261.1	259.0	240.0	219.0	214.8
65°	15471.1	10716.9	1882.3	322.1	301.1	237.9	225.3	221.1	193.7	170.5	168.4
67.5°	15325.8	9150.4	949.6	254.8	237.9	197.9	185.3	185.3	166.3	145.3	143.2
70°	14744.7	6859.7	400.0	204.2	183.2	151.6	151.6	160.0	141.1	117.9	115.8
72.5°	13483.5	4615.2	212.7	155.8	136.9	107.4	124.2	130.5	111.6	88.4	88.4
75°	10719.0	2815.0	147.4	115.8	86.3	75.8	94.7	99.0	75.8	59.0	56.8
77.5°	7331.3	1617.0	99.0	73.7	54.7	44.2	65.3	61.1	40.0	27.4	29.5
80°	3219.3	673.8	56.8	33.7	21.1	16.8	23.2	16.8	12.6	8.4	8.4
82.5°	376.9	157.9	21.1	12.6	8.4	4.2	2.1	0.0	0.0	0.0	0.0
85°	77.9	18.9	10.5	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.7	4.2	2.1	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)