

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: P953459

Luminaire Tested: **GALN-SB7A-730-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24573 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

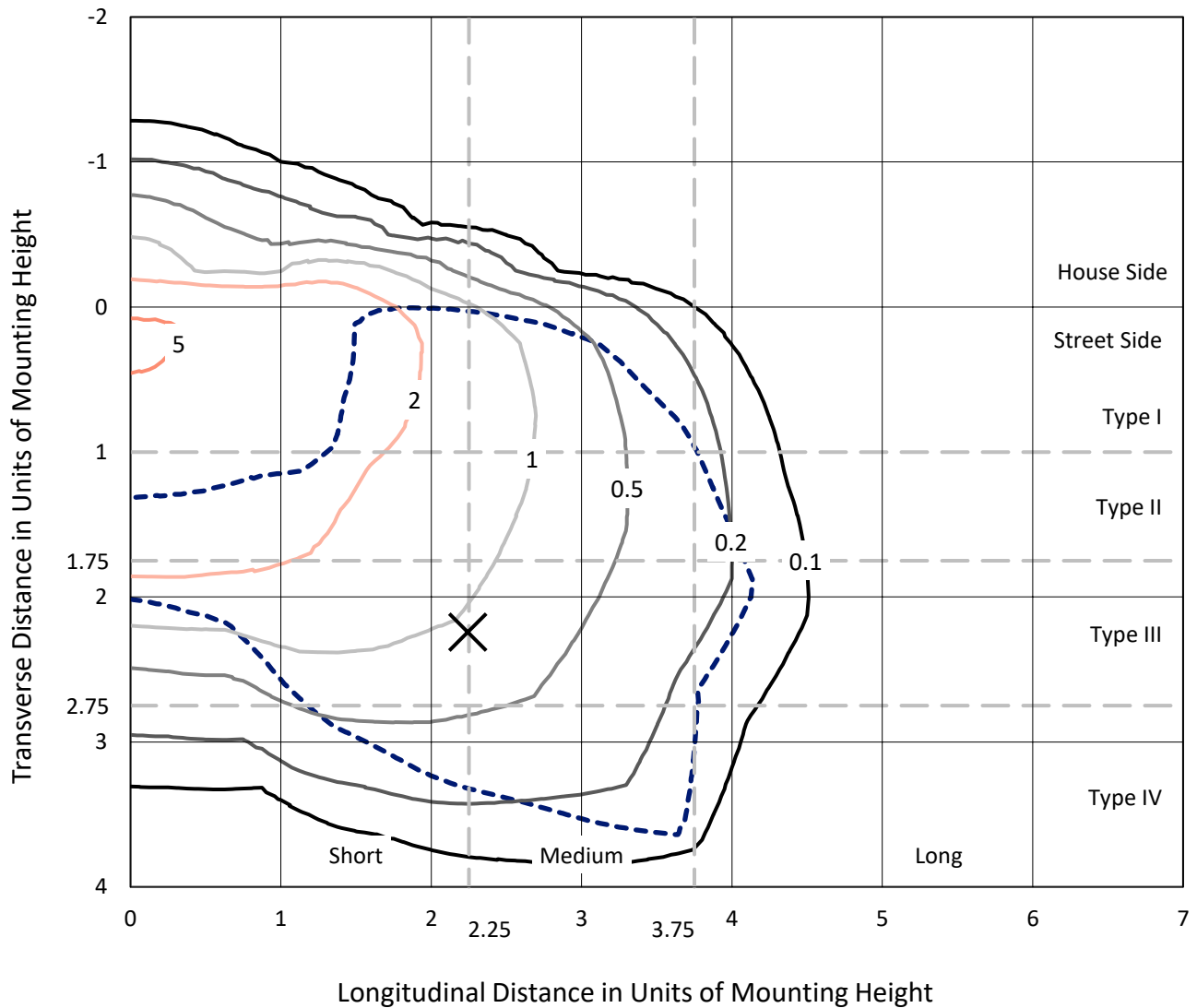
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

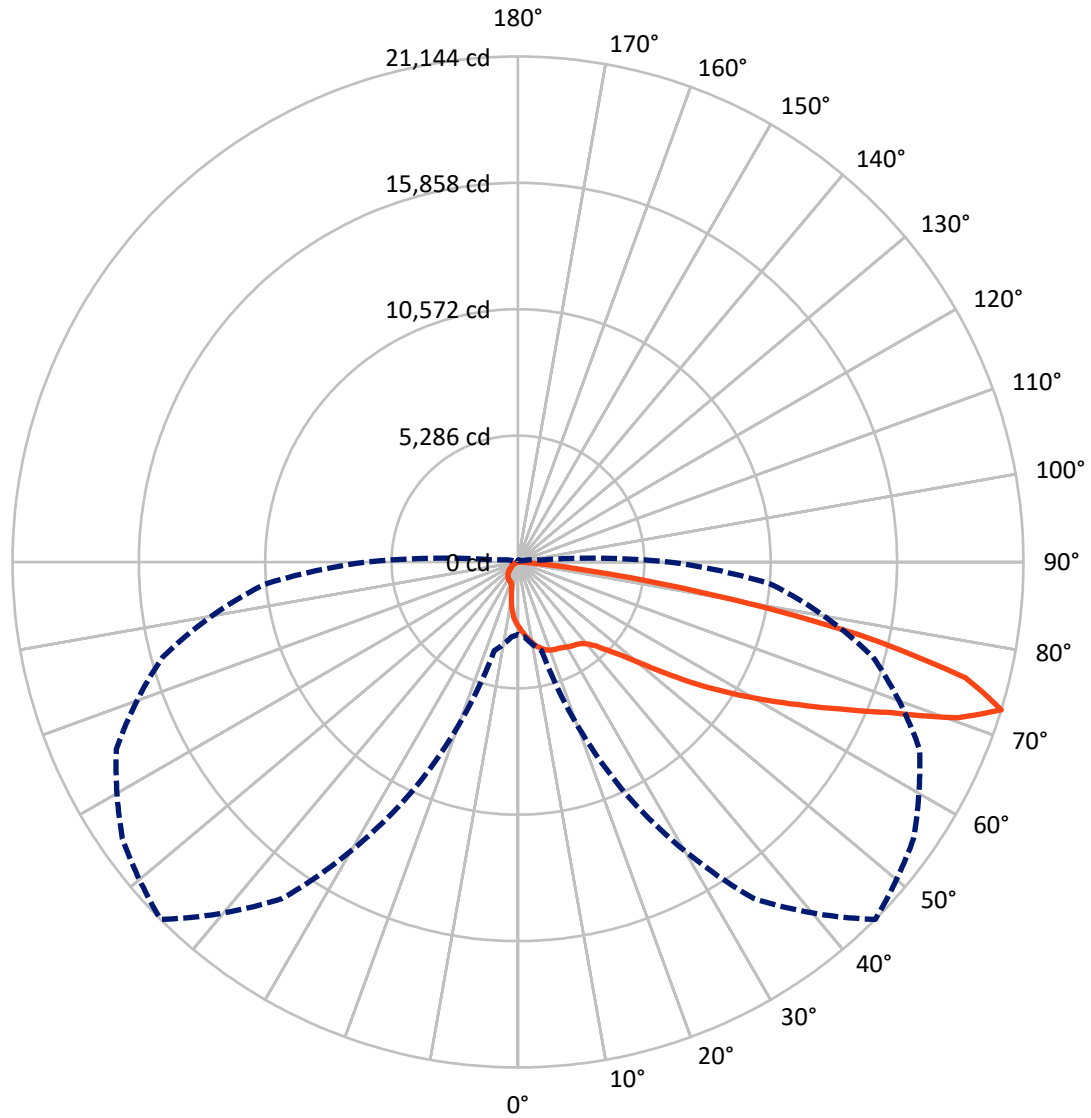
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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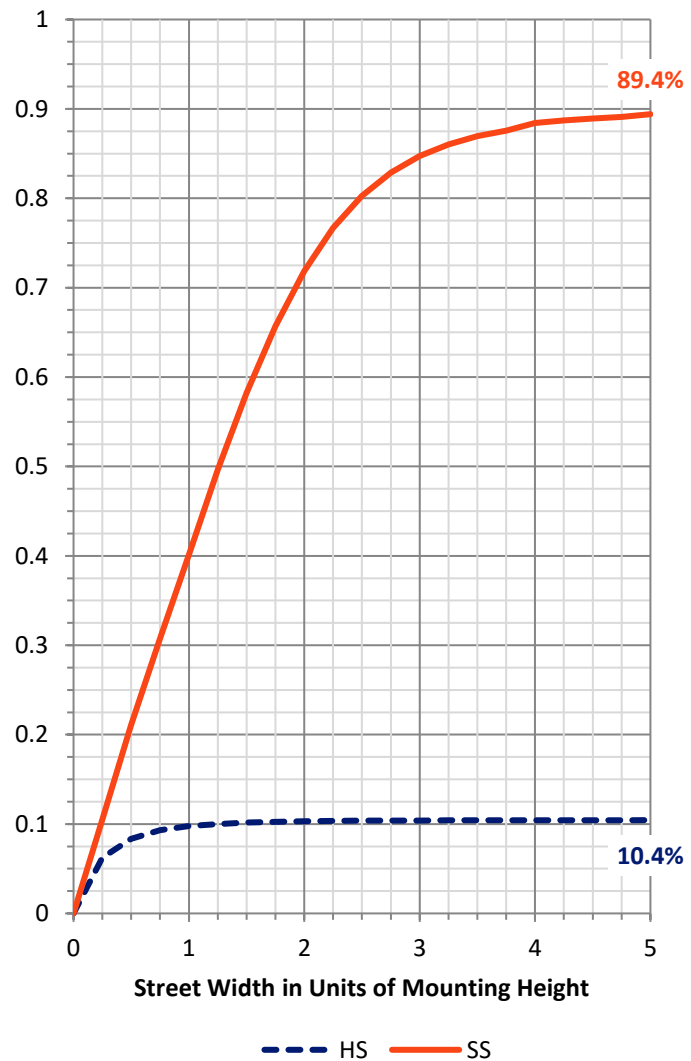
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2581.9	0.0	2581.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	21991.1	0.0	21991.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	24573.0	0.0	24573.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.6	1.0
10°-20°	741.3	3.0
20°-30°	1217.3	5.0
30°-40°	1726.4	7.0
40°-50°	2853.6	11.6
50°-60°	5126.2	20.9
60°-70°	7118.0	29.0
70°-80°	5163.2	21.0
80°-90°	373.3	1.5
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°	24573.0	100.0
0°-180°	24573.0	100.0

Coefficient of Utilization



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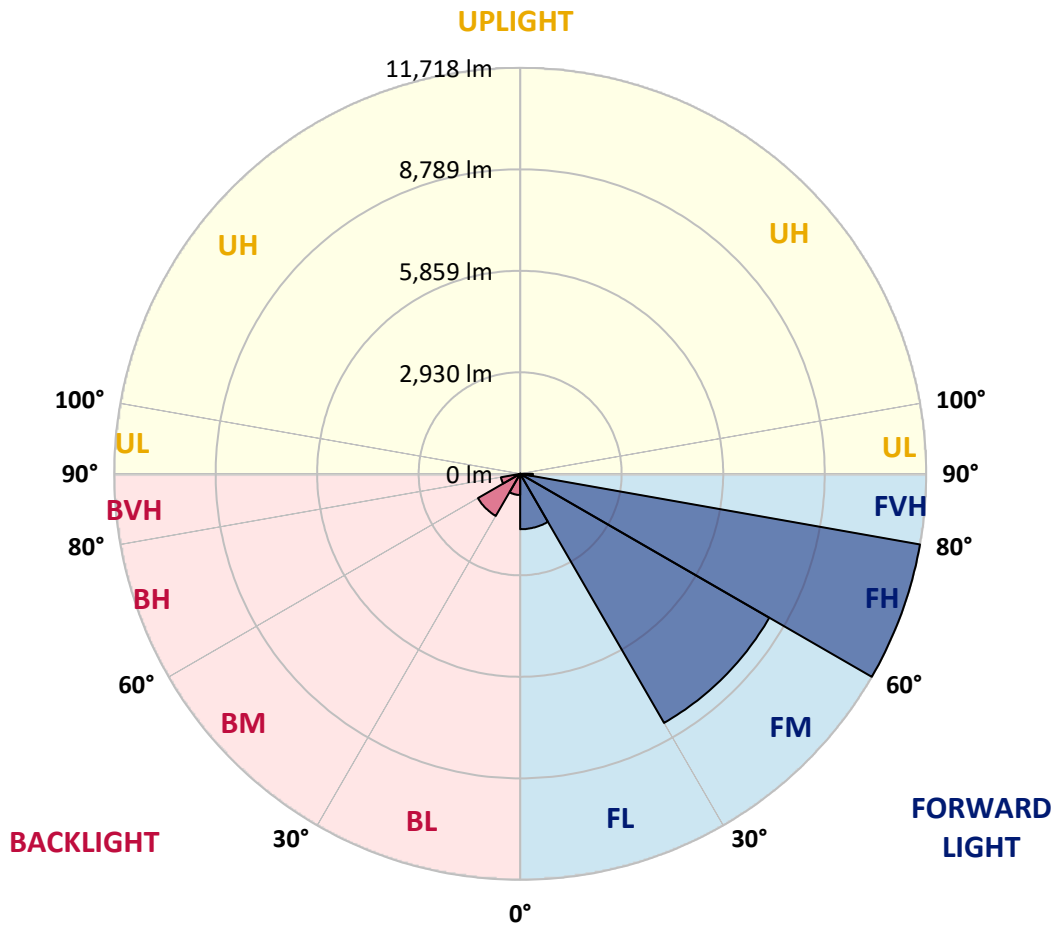
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1600.7	6.5			
FM (30°-60°)	8302.1	33.8			
FH (60°-80°)	11718.2	47.7			G4/12000
FVH (80°-90°)	370.1	1.5			G3/500
BL (0°-30°)	611.6	2.5	B2/1000		
BM (30°-60°)	1404.2	5.7	B2/2500		
BH (60°-80°)	563.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2692.0	2692.0	2692.0	2692.0	2692.0	2692.0	2692.0	2692.0	2692.0	2692.0	2692.0
2.5°	2940.3	2945.3	2941.9	2921.8	2888.3	2869.8	2859.8	2826.2	2804.4	2765.8	2725.6
5°	3210.3	3230.4	3218.7	3178.4	3114.7	3069.4	3056.0	2987.2	2925.2	2853.0	2769.2
7.5°	3497.1	3507.2	3485.4	3433.4	3347.8	3270.7	3258.9	3163.3	3064.4	2953.7	2839.6
10°	3745.4	3757.1	3723.5	3648.1	3550.8	3455.2	3438.4	3332.7	3215.3	3079.5	2933.6
12.5°	3953.3	3965.1	3921.5	3830.9	3723.5	3624.6	3607.8	3497.1	3368.0	3217.0	3035.9
15°	4111.0	4132.8	4074.1	3976.8	3861.1	3762.1	3753.7	3644.7	3518.9	3351.2	3158.3
17.5°	4203.2	4225.1	4169.7	4052.3	3953.3	3869.5	3859.4	3768.8	3651.4	3490.4	3277.4
20°	4218.3	4238.5	4179.8	4077.5	3995.3	3928.2	3923.1	3857.7	3772.2	3617.9	3406.5
22.5°	4173.1	4198.2	4144.5	4062.4	4005.3	3970.1	3963.4	3926.5	3877.9	3747.0	3527.3
25°	4126.1	4146.2	4106.0	4033.8	4003.7	4000.3	4005.3	3998.6	3988.6	3877.9	3668.2
27.5°	4122.7	4144.5	4099.3	4030.5	4013.7	4048.9	4054.0	4085.8	4094.2	3996.9	3804.1
30°	4151.3	4166.3	4122.7	4050.6	4042.2	4122.7	4124.4	4181.4	4194.9	4097.6	3938.2
32.5°	4213.3	4230.1	4186.5	4080.8	4069.1	4181.4	4186.5	4262.0	4283.8	4204.9	4079.1
35°	4359.2	4379.4	4329.0	4164.7	4122.7	4236.8	4251.9	4340.8	4384.4	4319.0	4225.1
37.5°	4723.2	4664.5	4595.7	4334.1	4245.2	4324.0	4349.2	4453.2	4530.3	4454.8	4399.5
40°	5627.3	5442.8	5228.1	4622.6	4459.9	4510.2	4530.3	4634.3	4740.0	4666.2	4639.3
42.5°	6984.2	6766.1	6420.6	5286.8	4783.6	4808.7	4823.8	4914.4	5063.7	5005.0	5011.7
45°	8193.5	8114.7	7762.4	6420.6	5389.1	5265.0	5283.4	5330.4	5550.1	5528.3	5571.9
47.5°	9122.7	9077.4	8805.7	7722.2	6412.2	5823.5	5875.5	5897.3	6214.3	6291.5	6408.9
50°	9837.2	9820.4	9577.2	8879.5	7749.0	6647.0	6665.5	6618.5	7093.2	7284.4	7507.5
52.5°	10511.5	10568.5	10389.0	9954.6	9176.4	7725.5	7722.2	7500.8	8141.5	8430.0	8810.7
55°	11120.3	11140.5	11158.9	11051.6	10612.1	8953.3	8921.4	8559.1	9357.5	9656.1	10068.7
57.5°	11692.3	11700.7	11865.0	12084.8	12106.6	10271.6	10212.9	9778.5	10685.9	10898.9	11152.2
60°	12076.4	12114.9	12462.1	13072.7	13339.4	11631.9	11600.0	11157.2	12037.8	12136.8	12089.8
62.5°	11522.9	11757.7	12633.2	13844.2	14503.4	13139.8	13124.7	12708.7	13460.1	13379.6	12977.1
65°	9327.3	9724.8	11264.6	14365.8	15645.6	14823.7	14845.6	14402.7	14921.0	14659.4	13698.3
67.5°	6524.6	6943.9	8765.4	14407.8	16922.0	16801.3	16927.0	16232.7	16472.5	15885.5	13869.4
70°	4511.9	4728.2	5914.1	13505.4	17916.6	19525.1	19521.8	18480.2	18015.6	16444.0	12997.2
72.5°	3034.2	3146.6	3841.0	10714.4	17185.3	21143.7	21046.4	20197.7	18535.6	15378.9	10618.8
75°	1279.8	1361.9	1777.9	6021.4	13596.0	19344.0	19080.7	17849.5	16469.2	12109.9	6625.2
77.5°	405.9	441.1	701.1	2155.3	7489.0	14540.3	14261.9	11147.2	11038.1	6075.1	2422.0
80°	192.9	224.8	394.2	865.5	2947.0	7908.3	7869.8	5057.0	4748.4	1640.4	486.4
82.5°	83.9	99.0	218.0	462.9	1318.3	2821.2	2878.2	1720.9	1424.0	622.3	149.3
85°	26.8	35.2	100.6	213.0	556.9	701.1	692.7	409.3	573.6	338.8	52.0
87.5°	0.0	0.0	33.5	48.6	57.0	40.3	45.3	35.2	159.3	93.9	18.5
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°	2692.0	2692.0	2692.0	2692.0	2692.0	2692.0	2692.0	2692.0	2692.0	2692.0	2692.0
2.5°	2705.4	2678.6	2631.6	2588.0	2549.5	2510.9	2487.4	2453.9	2450.5	2450.5	2458.9
5°	2723.9	2680.3	2596.4	2507.5	2405.2	2307.9	2210.6	2116.7	2086.5	2064.7	2074.8
7.5°	2777.6	2708.8	2576.3	2406.9	2212.3	1999.3	1850.0	1689.0	1627.0	1593.4	1598.4
10°	2854.7	2760.8	2559.5	2262.6	1947.3	1657.1	1444.1	1269.7	1202.6	1174.1	1174.1
12.5°	2940.3	2824.5	2529.3	2083.2	1657.1	1310.0	1102.0	1021.5	1011.4	1011.4	1011.4
15°	3042.6	2901.7	2477.3	1871.8	1353.6	1036.6	962.8	966.1	976.2	982.9	982.9
17.5°	3148.2	2983.9	2395.1	1635.3	1085.2	932.6	934.2	939.3	947.7	954.4	954.4
20°	3262.3	3066.1	2286.1	1383.8	930.9	902.4	907.4	912.4	919.1	922.5	924.2
22.5°	3384.7	3143.2	2157.0	1137.2	878.9	877.2	878.9	883.9	892.3	892.3	895.7
25°	3515.6	3228.8	2009.4	957.7	852.1	852.1	855.4	858.8	865.5	865.5	867.2
27.5°	3649.7	3307.6	1853.4	863.8	828.6	826.9	826.9	831.9	835.3	837.0	838.6
30°	3797.3	3399.8	1697.4	843.7	810.1	801.7	796.7	800.1	803.4	805.1	808.4
32.5°	3948.3	3488.7	1558.2	852.1	791.7	776.6	759.8	756.5	756.5	763.2	768.2
35°	4116.0	3586.0	1450.8	880.6	781.6	739.7	712.8	697.7	699.4	709.5	714.5
37.5°	4317.3	3703.4	1372.0	905.7	774.9	697.7	654.1	635.7	623.9	635.7	632.3
40°	4580.6	3876.2	1315.0	925.9	766.5	649.1	590.4	560.2	538.4	545.1	541.8
42.5°	4968.1	4147.9	1293.2	927.5	748.1	592.1	525.0	484.7	452.9	454.5	447.8
45°	5511.5	4577.3	1405.6	905.7	707.8	530.0	456.2	402.5	382.4	377.4	370.7
47.5°	6256.2	5202.9	1665.5	860.4	649.1	469.6	389.1	343.8	328.7	320.4	315.3
50°	7254.2	6006.3	1954.0	810.1	590.4	412.6	333.8	305.3	295.2	286.8	285.1
52.5°	8411.5	6821.5	2190.5	759.8	531.7	362.3	298.6	281.8	273.4	266.7	265.0
55°	9473.2	7383.4	2177.1	706.1	474.7	322.0	273.4	263.3	253.3	246.6	243.2
57.5°	10134.1	7462.2	1794.7	647.4	409.3	290.2	249.9	243.2	231.5	223.1	221.4
60°	10437.7	7012.7	1258.0	570.3	343.8	260.0	224.8	221.4	206.3	194.6	191.2
62.5°	10493.0	6177.4	838.6	474.7	286.8	231.5	199.6	194.6	174.4	154.3	144.2
65°	10268.3	4983.2	580.3	370.7	244.9	201.3	171.1	161.0	139.2	119.1	112.4
67.5°	9557.1	3498.8	404.2	266.7	208.0	159.3	135.9	132.5	115.7	99.0	93.9
70°	8253.9	1994.3	270.0	199.6	164.4	109.0	107.3	110.7	93.9	80.5	73.8
72.5°	6328.4	912.4	167.7	145.9	112.4	73.8	85.5	87.2	72.1	60.4	53.7
75°	3725.2	390.8	105.7	93.9	57.0	48.6	62.1	63.7	48.6	38.6	33.5
77.5°	1268.0	147.6	67.1	55.4	28.5	26.8	40.3	40.3	26.8	15.1	11.7
80°	288.5	55.4	33.5	21.8	13.4	11.7	13.4	11.7	6.7	1.7	0.0
82.5°	82.2	21.8	13.4	8.4	5.0	5.0	1.7	0.0	0.0	0.0	0.0
85°	23.5	10.1	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.1	1.7	0.0	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)