

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: P956311

Luminaire Tested: **GALN-SB9A-730-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956311
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-SB9A-730-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3000K, 350mA 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: 31225 lumens
Efficiency: N/A
Efficacy: 122.2 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): 255.5
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

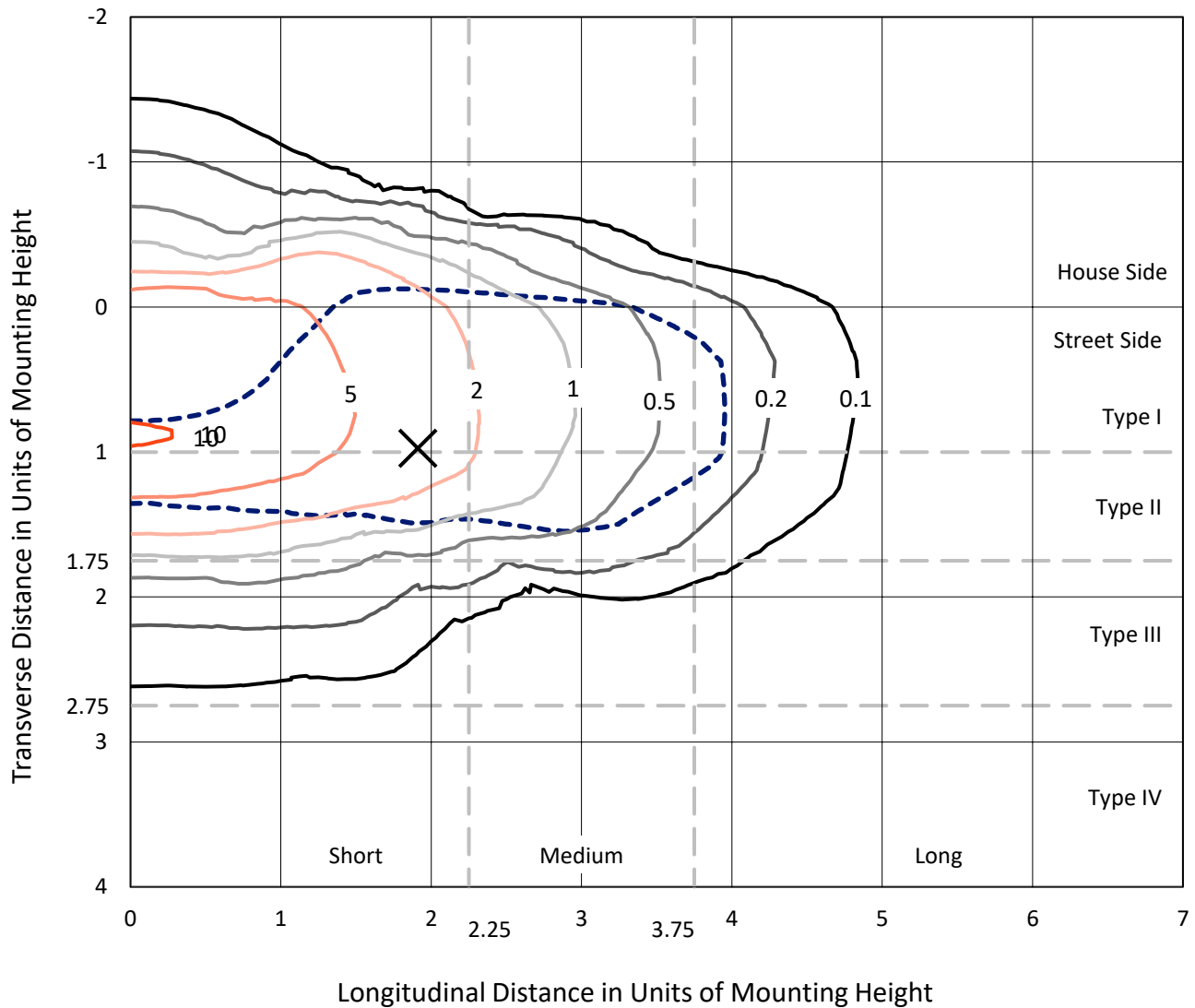


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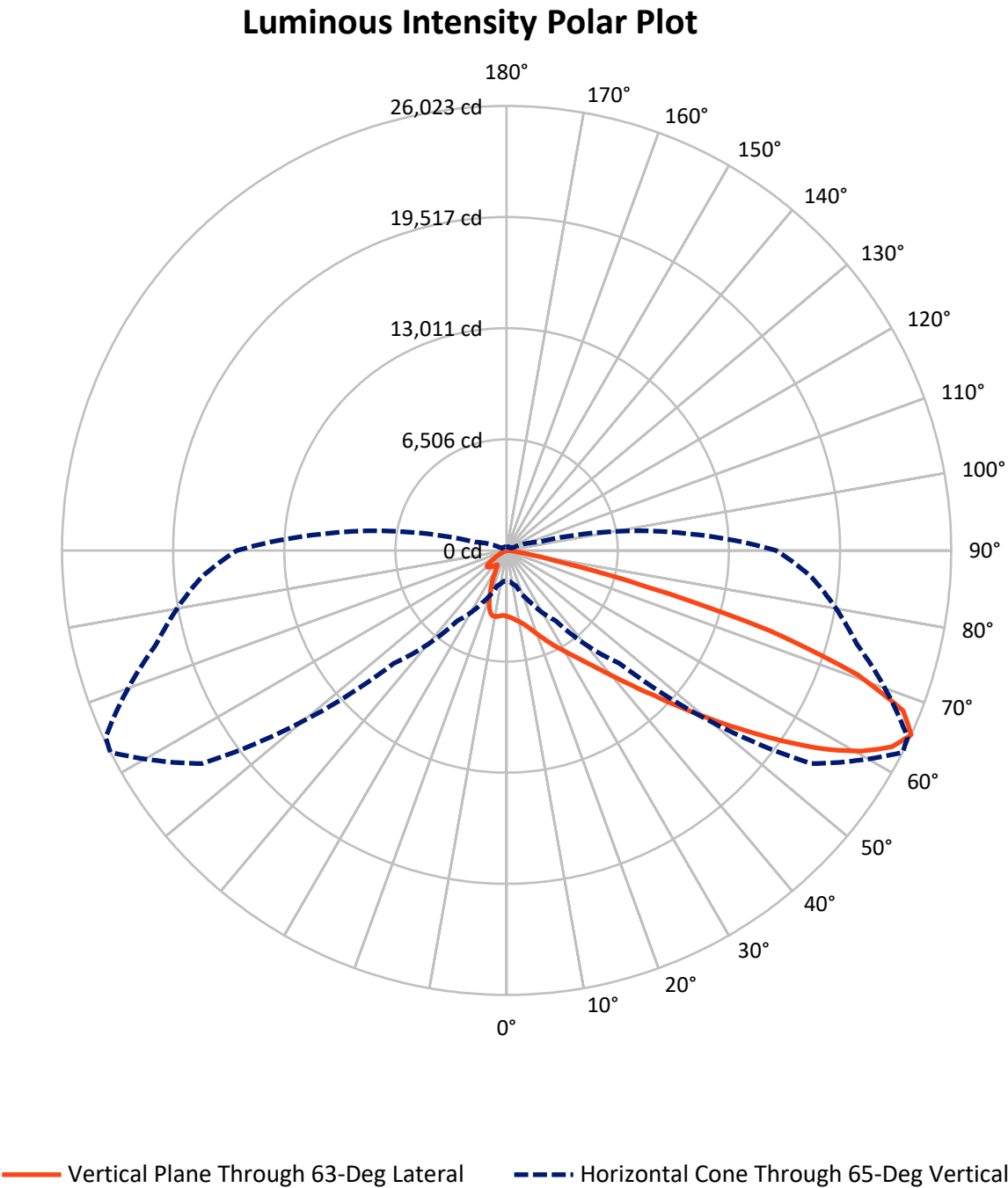
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4589.8	0.0	4589.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	26635.2	0.0	26635.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	31225.0	0.0	31225.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.1	1.2
10°-20°	1007.5	3.2
20°-30°	1754.2	5.6
30°-40°	3161.8	10.1
40°-50°	6270.9	20.1
50°-60°	8542.1	27.4
60°-70°	6818.2	21.8
70°-80°	3085.4	9.9
80°-90°	221.8	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°	31225.0	100.0
0°-180°	31225.0	100.0

Coefficient of Utilization



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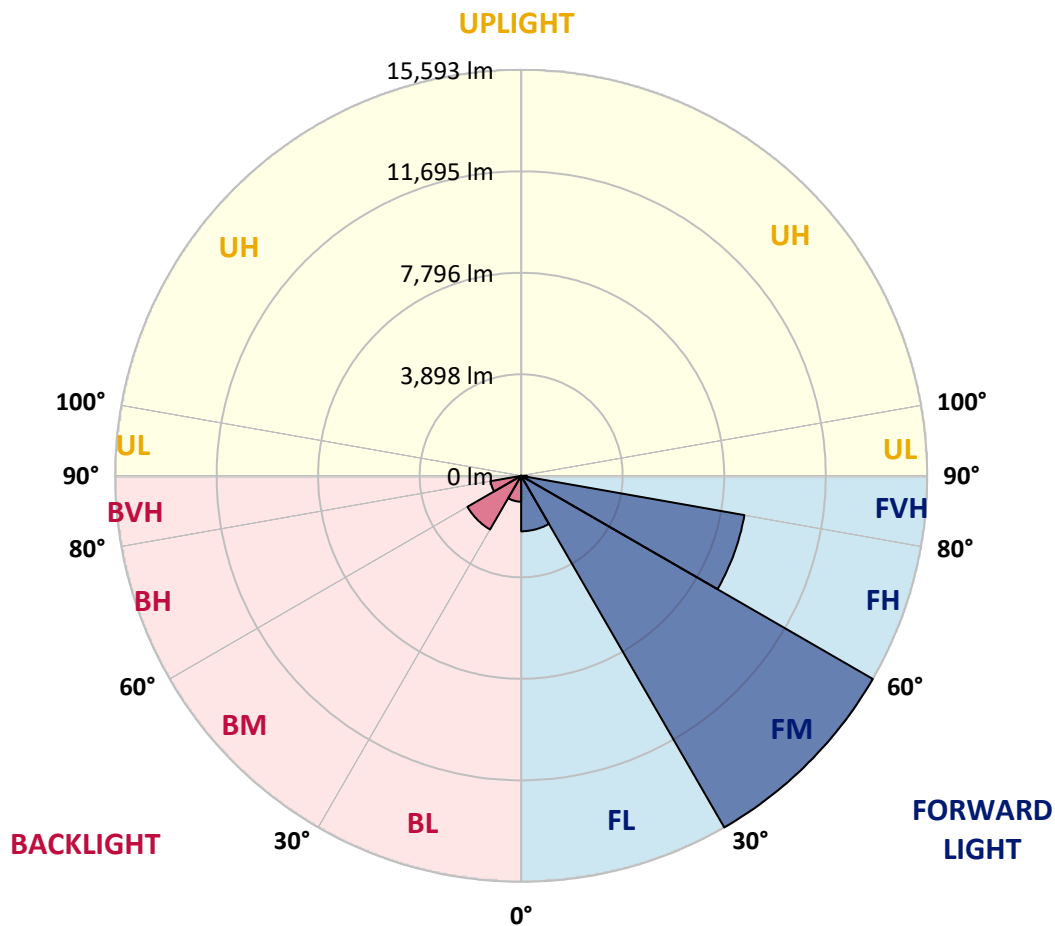
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2131.5	6.8			
FM	(30°-60°)	15593.0	49.9			
FH	(60°-80°)	8705.4	27.9			G4/12000
FVH	(80°-90°)	205.3	0.7			G2/225
BL	(0°-30°)	993.3	3.2	B2/1000		
BM	(30°-60°)	2381.8	7.6	B2/2500		
BH	(60°-80°)	1198.2	3.8	B3/2500		G3/2500
BVH	(80°-90°)	16.5	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°	3853.8	3853.8	3853.8	3853.8	3853.8	3853.8	3853.8	3853.8	3853.8	3853.8	3853.8
2.5°	3944.0	3933.2	3948.3	3941.8	3937.5	3928.9	3924.6	3920.3	3911.8	3905.3	3879.5
5°	3954.7	3948.3	3963.3	3976.2	3989.1	4002.0	4008.4	4017.0	4008.4	3991.2	3965.5
7.5°	3864.5	3860.2	3892.4	3931.1	3989.1	4038.5	4092.2	4122.3	4124.4	4118.0	4090.0
10°	3858.1	3847.3	3879.5	3926.8	4002.0	4090.0	4184.6	4249.0	4257.6	4285.5	4255.5
12.5°	3959.0	3948.3	3993.4	4044.9	4122.3	4214.6	4330.6	4420.9	4433.8	4472.4	4450.9
15°	4128.7	4113.7	4165.2	4231.8	4330.6	4435.9	4558.3	4640.0	4650.7	4698.0	4659.3
17.5°	4326.3	4311.3	4371.5	4442.3	4549.8	4693.7	4835.5	4925.7	4938.6	4968.6	4897.7
20°	4579.8	4560.5	4607.8	4672.2	4786.0	4957.9	5127.6	5256.5	5254.3	5254.3	5138.3
22.5°	4874.1	4844.0	4884.9	4936.4	5043.8	5252.2	5477.7	5630.3	5630.3	5570.1	5378.9
25°	5189.9	5159.8	5204.9	5252.2	5346.7	5583.0	5847.2	6036.3	6044.9	5941.7	5636.7
27.5°	5585.2	5546.5	5580.9	5636.7	5692.6	5933.2	6246.8	6465.9	6470.2	6311.2	5881.6
30°	6345.6	6236.0	6128.6	6068.5	6094.3	6332.7	6667.8	6910.6	6932.0	6712.9	6148.0
32.5°	7737.6	7716.1	7338.0	6844.0	6586.2	6762.3	7138.3	7430.4	7443.3	7161.9	6493.8
35°	9900.8	9875.0	9267.1	8326.2	7486.3	7338.0	7709.7	8055.5	8046.9	7729.0	6942.8
37.5°	12482.8	12459.2	11657.9	10399.1	9039.4	8208.0	8446.5	8809.5	8863.2	8446.5	7522.8
40°	14689.0	14600.9	14093.9	12880.2	11101.6	9651.6	9494.8	9735.3	9791.2	9297.1	8259.6
42.5°	16360.2	16285.0	16027.2	15268.9	13597.7	11786.8	10729.9	10822.3	10884.6	10291.7	9105.9
45°	17225.9	17208.7	17311.8	17240.9	16141.1	14407.5	12495.7	12111.2	12134.8	11393.7	10066.2
47.5°	17348.3	17339.7	17810.2	18476.1	18327.9	17363.4	14762.0	13718.0	13634.2	12637.5	11110.2
50°	16626.6	16609.4	17511.6	18759.7	19788.6	19846.6	17335.5	15528.9	15344.1	13924.2	12199.3
52.5°	14321.6	14317.3	15799.5	17876.8	20302.0	22020.5	19878.8	17518.0	17208.7	15286.1	13350.7
55°	11019.9	11099.4	12798.6	15253.9	19365.4	23066.7	22162.3	19726.3	19251.6	16656.6	14411.8
57.5°	7806.3	7922.3	9602.2	11789.0	16461.2	22448.0	23706.8	21938.9	21427.7	18022.9	15488.1
60°	4193.2	4296.3	5978.3	8588.2	12246.5	20140.9	24521.0	23859.3	23376.0	19320.3	16459.0
62.5°	2498.3	2532.7	3228.6	5544.3	8283.2	15387.1	24175.1	25322.2	24924.8	20409.4	17303.2
65°	1793.7	1800.1	2150.3	3385.5	5028.8	9348.7	21749.9	26022.5	25900.1	21230.0	17928.3
67.5°	1510.1	1505.8	1651.9	2249.1	3426.3	4682.9	16669.5	25032.2	25552.1	21749.9	18282.8
70°	1295.3	1301.8	1473.6	1647.6	2575.6	2650.8	8287.5	21795.0	22903.4	21887.4	18261.3
72.5°	964.5	986.0	1145.0	1501.5	1944.1	1823.8	2861.3	16160.4	18164.6	20622.1	17314.0
75°	681.0	691.7	805.6	1263.1	1450.0	1327.5	1460.7	8354.1	10923.3	15810.3	14171.2
77.5°	524.1	543.5	610.1	882.9	1428.5	932.3	893.6	2891.4	4442.3	9550.6	9716.0
80°	283.6	317.9	440.4	638.0	1003.2	659.5	442.5	1151.4	1505.8	4466.0	3746.3
82.5°	146.1	163.3	307.2	459.7	571.4	575.7	219.1	479.0	620.8	1379.1	513.4
85°	58.0	70.9	206.2	253.5	294.3	283.6	98.8	193.3	223.4	382.4	156.8
87.5°	12.9	21.5	75.2	58.0	55.9	60.1	23.6	45.1	43.0	45.1	27.9
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°	3853.8	3853.8	3853.8	3853.8	3853.8	3853.8	3853.8	3853.8	3853.8	3853.8	3853.8
2.5°	3877.4	3868.8	3845.2	3819.4	3789.3	3772.1	3761.4	3759.2	3744.2	3733.5	3744.2
5°	3941.8	3933.2	3888.1	3834.4	3776.4	3731.3	3688.3	3649.7	3593.8	3583.1	3578.8
7.5°	4070.7	4047.1	3974.1	3901.0	3791.5	3660.4	3501.5	3318.9	3155.6	3106.2	3082.6
10°	4229.7	4197.5	4105.1	3976.2	3733.5	3376.9	2992.4	2635.8	2352.2	2272.7	2242.7
12.5°	4410.1	4382.2	4259.8	4021.3	3490.7	2844.1	2255.5	1813.0	1538.1	1469.3	1450.0
15°	4624.9	4584.1	4414.4	3952.6	3056.8	2161.0	1548.8	1286.7	1187.9	1175.0	1162.1
17.5°	4852.6	4786.0	4551.9	3705.5	2472.5	1535.9	1196.5	1121.3	1078.4	1065.5	1059.0
20°	5061.0	4975.1	4633.5	3331.8	1847.4	1196.5	1071.9	1022.5	983.8	968.8	960.2
22.5°	5269.4	5146.9	4633.5	2822.6	1385.5	1061.2	983.8	938.7	893.6	874.3	863.6
25°	5486.3	5323.1	4551.9	2255.5	1114.9	973.1	900.1	850.7	812.0	788.4	779.8
27.5°	5696.9	5471.3	4365.0	1718.5	992.4	895.8	822.7	775.5	739.0	721.8	721.8
30°	5896.6	5617.4	4102.9	1303.9	913.0	820.6	751.8	711.0	674.5	657.3	659.5
32.5°	6167.3	5802.1	3823.7	1069.8	844.2	749.7	687.4	648.7	616.5	603.6	603.6
35°	6543.2	6074.9	3583.1	1050.4	786.2	691.7	629.4	592.9	560.7	549.9	549.9
37.5°	7076.0	6515.3	3456.3	1179.3	739.0	640.1	582.1	543.5	513.4	504.8	502.7
40°	7733.3	7112.5	3525.1	1308.2	706.7	595.0	539.2	500.5	474.7	464.0	461.8
42.5°	8513.1	7849.3	3905.3	1407.0	685.3	556.4	498.4	455.4	438.2	433.9	433.9
45°	9408.8	8659.1	4487.5	1512.3	650.9	519.8	457.6	425.3	412.4	410.3	408.1
47.5°	10427.0	9548.5	5162.0	1643.3	616.5	485.5	425.3	403.8	393.1	388.8	388.8
50°	11436.7	10444.2	5855.8	1716.4	588.6	453.3	399.6	382.4	373.8	371.6	371.6
52.5°	12493.6	11365.8	6416.5	1647.6	565.0	427.5	378.1	365.2	356.6	354.4	354.4
55°	13501.0	12111.2	6513.1	1398.4	517.7	401.7	354.4	348.0	337.3	337.3	335.1
57.5°	14368.9	12485.0	5830.0	1026.8	470.4	363.0	330.8	324.4	315.8	313.6	311.5
60°	15165.8	12377.6	4500.3	691.7	418.9	324.4	300.7	296.4	287.9	277.1	275.0
62.5°	15614.8	11905.0	3078.3	451.1	367.3	283.6	266.4	264.2	244.9	223.4	219.1
65°	15784.5	10934.0	1920.4	328.7	307.2	242.7	229.9	225.6	197.6	174.0	171.9
67.5°	15636.3	9335.8	968.8	259.9	242.7	201.9	189.0	189.0	169.7	148.2	146.1
70°	15043.4	6998.6	408.1	208.4	186.9	154.7	154.7	163.3	143.9	120.3	118.1
72.5°	13756.7	4708.7	217.0	159.0	139.6	109.6	126.7	133.2	113.9	90.2	90.2
75°	10936.2	2872.1	150.4	118.1	88.1	77.3	96.7	101.0	77.3	60.1	58.0
77.5°	7479.8	1649.8	101.0	75.2	55.9	45.1	66.6	62.3	40.8	27.9	30.1
80°	3284.5	687.4	58.0	34.4	21.5	17.2	23.6	17.2	12.9	8.6	8.6
82.5°	384.5	161.1	21.5	12.9	8.6	4.3	2.1	0.0	0.0	0.0	0.0
85°	79.5	19.3	10.7	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.0	4.3	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)