

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: P951630

Luminaire Tested: **GALN-SB5D-722-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5D-722-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35353 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 364.9
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

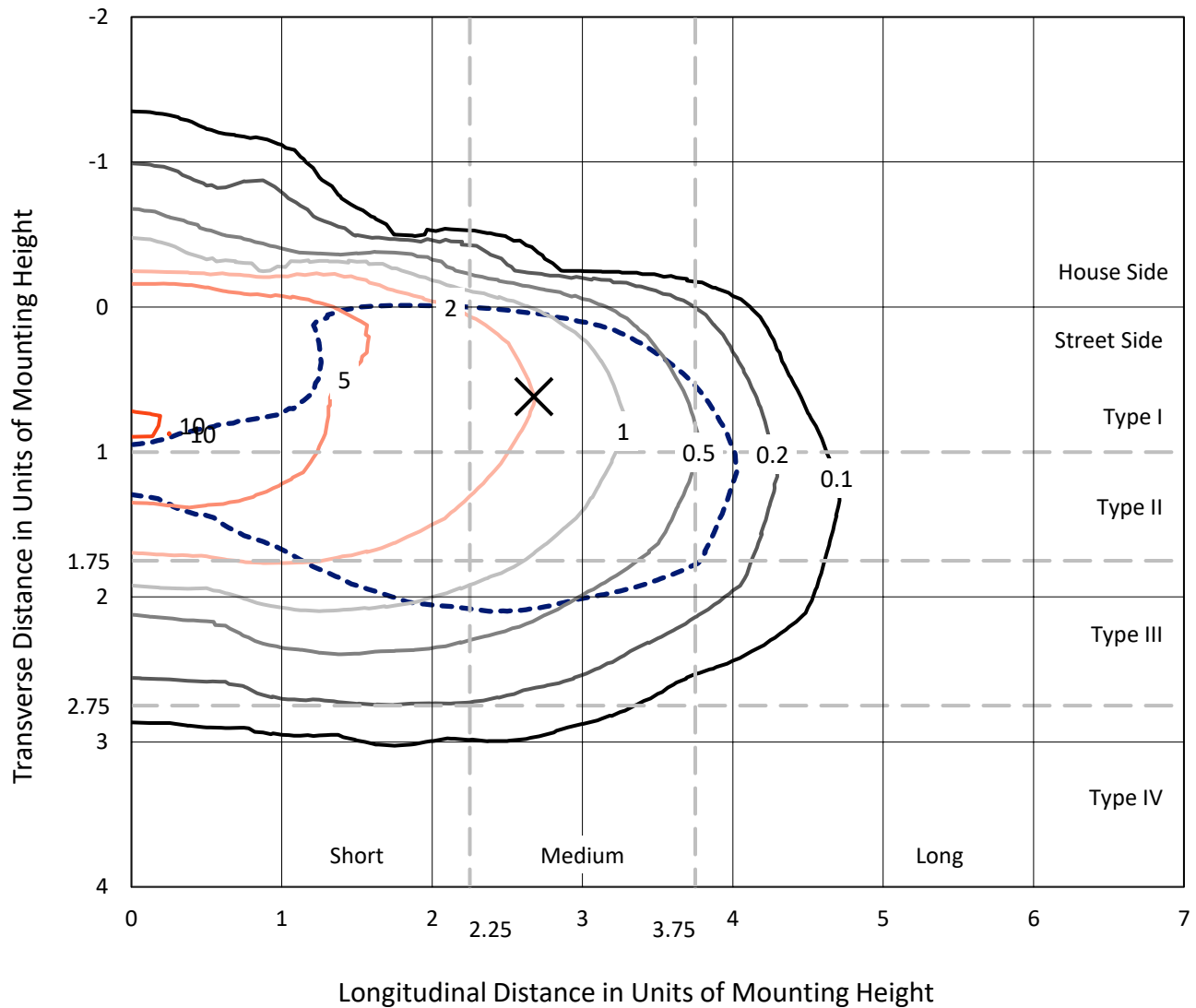


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Iso-Footcandle Lines of Horizontal Illumination

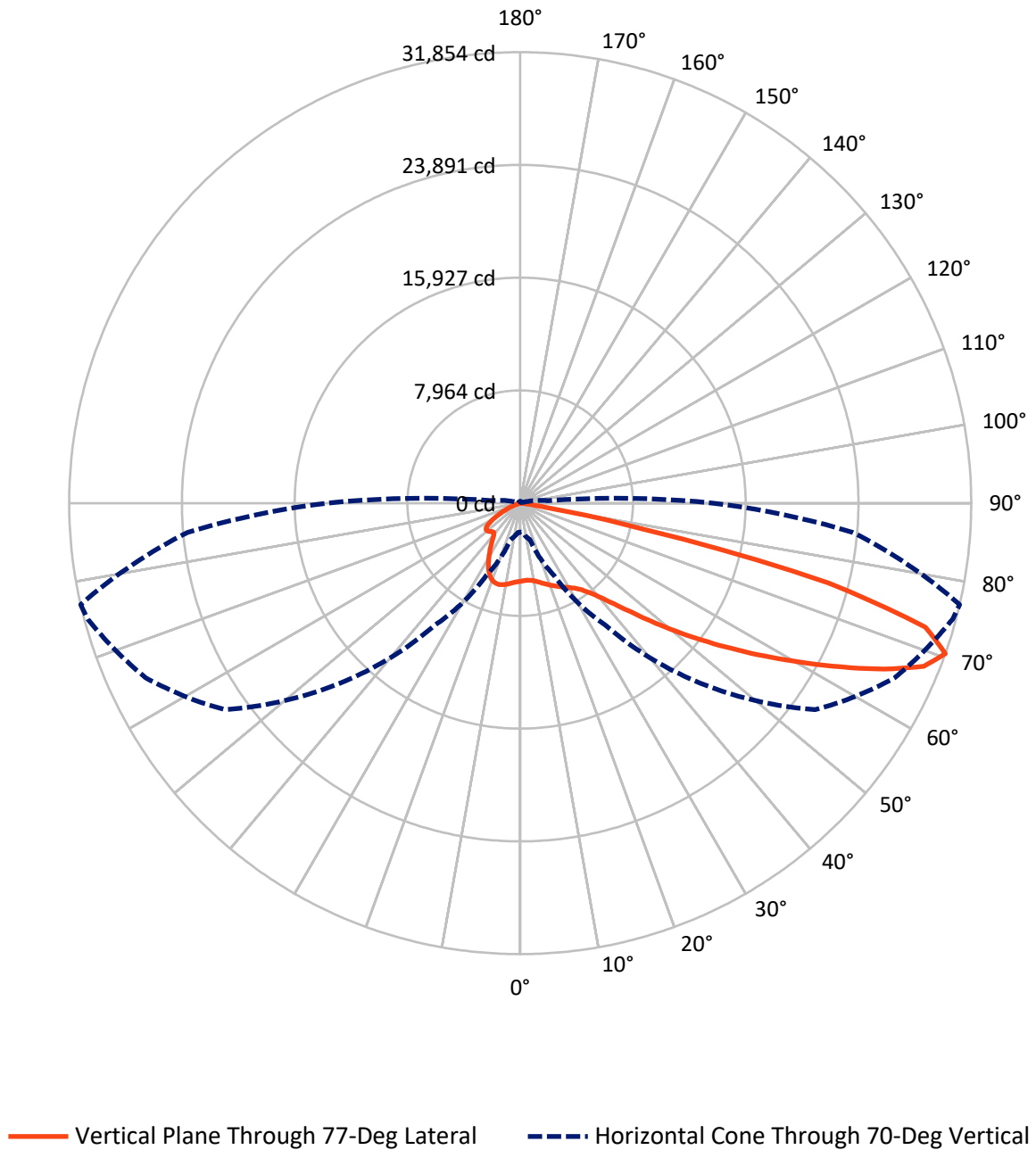
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3726.7	0.0	3726.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	31626.3	0.0	31626.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	35353.0	0.0	35353.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.3	1.3
10°-20°	1128.2	3.2
20°-30°	1745.0	4.9
30°-40°	3166.4	9.0
40°-50°	5977.0	16.9
50°-60°	8636.3	24.4
60°-70°	9193.1	26.0
70°-80°	4871.7	13.8
80°-90°	160.0	0.5
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°	35353.0	100.0
0°-180°	35353.0	100.0

Coefficient of Utilization



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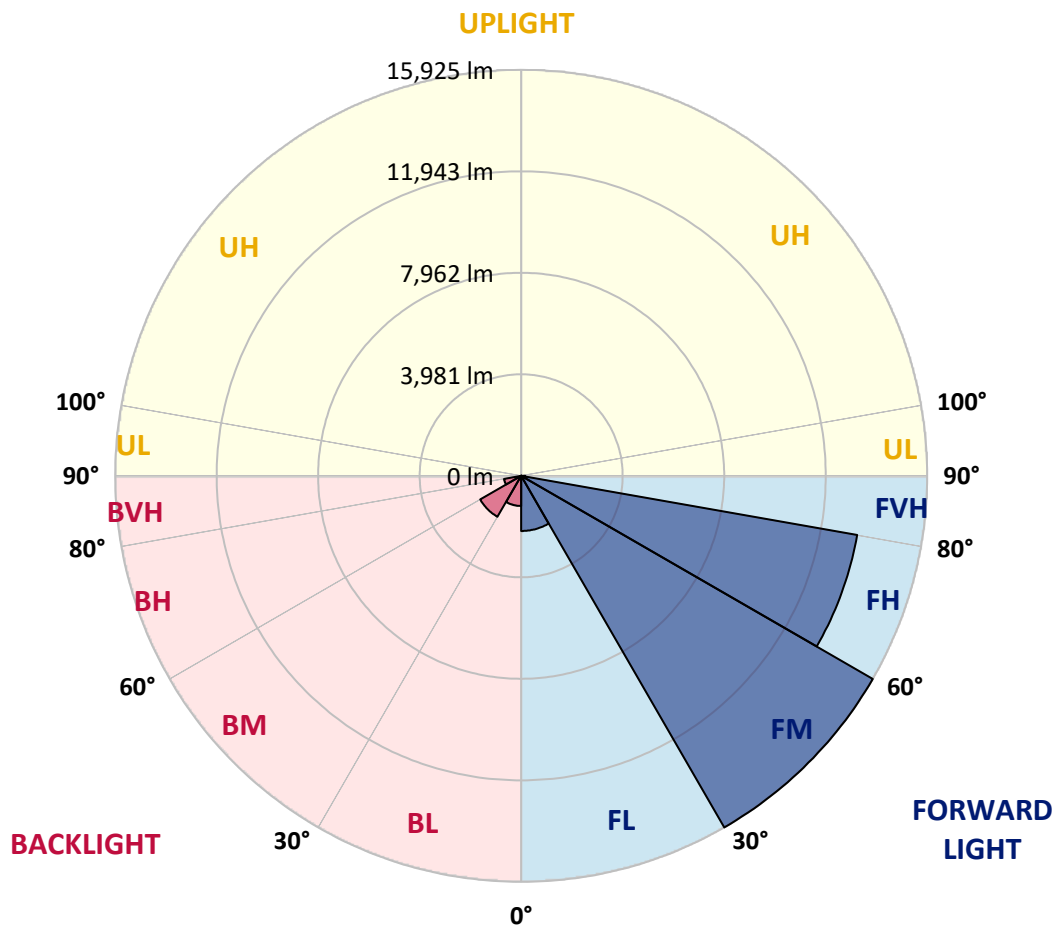
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2164.4	6.1			
FM	(30°-60°)	15924.6	45.0			
FH	(60°-80°)	13381.6	37.9			G5
FVH	(80°-90°)	155.7	0.4			G2/225
BL	(0°-30°)	1184.0	3.3	B3/2500		
BM	(30°-60°)	1855.2	5.2	B2/2500		
BH	(60°-80°)	683.2	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.3	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5514.4	5514.4	5514.4	5514.4	5514.4	5514.4	5514.4	5514.4	5514.4	5514.4	5514.4
2.5°	5177.3	5224.2	5217.5	5248.8	5259.9	5304.6	5349.2	5409.5	5476.5	5474.2	5518.9
5°	4884.8	4931.7	4942.9	4985.3	5038.9	5108.1	5199.6	5320.2	5445.2	5465.3	5554.6
7.5°	4538.8	4587.9	4616.9	4701.8	4800.0	4942.9	5092.5	5268.8	5476.5	5505.5	5677.4
10°	4192.8	4237.4	4275.4	4395.9	4552.2	4764.3	5007.6	5262.1	5541.2	5583.6	5827.0
12.5°	3978.4	4020.8	4063.3	4168.2	4362.4	4621.4	4951.8	5293.4	5648.4	5708.7	6030.2
15°	3902.5	3940.5	3974.0	4067.7	4248.6	4543.3	4940.7	5358.2	5784.6	5864.9	6275.7
17.5°	3913.7	3933.8	3956.1	4027.5	4203.9	4507.5	4960.8	5469.8	5945.3	6016.8	6521.3
20°	3978.4	3989.6	3991.8	4040.9	4197.2	4503.1	5000.9	5576.9	6097.1	6193.1	6764.7
22.5°	4061.0	4065.5	4061.0	4094.5	4239.6	4536.6	5054.5	5706.4	6266.8	6356.1	7010.2
25°	4447.3	4362.4	4255.3	4190.5	4311.1	4601.3	5134.9	5880.6	6452.1	6539.2	7249.1
27.5°	5646.2	5402.8	5018.8	4587.9	4458.4	4695.1	5246.5	6056.9	6639.6	6717.8	7505.9
30°	7592.9	7273.7	6621.8	5650.6	4931.7	4891.5	5391.6	6233.3	6838.3	6923.2	7780.5
32.5°	9544.2	9466.1	8713.7	7369.7	5996.7	5329.1	5632.8	6472.2	7101.8	7168.8	8151.1
35°	11517.8	11359.3	10743.1	9414.7	7637.6	6219.9	6034.6	6784.8	7447.8	7523.7	8691.4
37.5°	13029.2	12933.2	12551.5	11457.5	9584.4	7595.2	6722.2	7269.2	7950.2	8035.0	9383.5
40°	14364.3	14319.7	14190.2	13469.0	11761.1	9394.6	7791.6	8019.4	8646.7	8747.2	10231.8
42.5°	15413.6	15518.5	15592.2	15391.3	14004.9	11448.6	9229.4	9073.1	9617.9	9720.6	11312.4
45°	16487.5	16523.2	16820.1	17110.4	16233.0	13596.3	10850.3	10307.7	10825.7	10953.0	12607.3
47.5°	17177.3	17320.2	17842.6	18353.9	18106.1	15726.2	12591.7	11765.6	12225.5	12464.4	14058.4
50°	17228.7	17498.8	18217.7	19108.5	19470.2	17753.3	14484.9	13426.6	13915.6	14179.0	15607.8
52.5°	16373.6	16793.3	17907.4	19211.2	20206.9	19470.2	16442.8	15087.7	15715.0	16058.8	17215.3
55°	12553.7	13102.9	16739.8	18653.1	20235.9	20771.8	18349.4	16817.9	17719.8	18108.3	18952.2
57.5°	10937.3	11214.2	13161.0	17684.1	19697.9	21296.4	20073.0	18465.5	19901.1	20383.3	20593.2
60°	9099.9	9463.8	11037.8	16099.0	18967.9	21347.8	21595.6	20590.9	22265.3	22807.9	22097.9
62.5°	6184.2	6579.4	8144.4	13375.3	17969.9	21323.2	22843.6	22778.8	24893.1	25475.8	23372.7
65°	3831.1	4078.9	5110.3	10921.7	16574.5	21350.0	24149.6	25435.6	27665.9	28257.5	24359.5
67.5°	3027.4	3141.2	3679.3	8385.5	14170.1	20747.2	25453.4	27933.8	30275.8	30744.6	24660.9
70°	2033.9	2103.1	2676.8	5621.6	10542.2	17965.4	25428.9	29188.5	31619.8	31854.2	23562.5
72.5°	1071.6	1125.2	1565.0	2603.2	6367.3	12770.3	21434.8	27688.2	30282.5	29929.7	20139.9
75°	535.8	625.1	1053.8	1321.7	2719.3	7121.9	13310.5	21830.0	23834.8	22468.5	12922.1
77.5°	406.3	491.2	870.7	870.7	946.6	2397.8	5637.2	11906.3	10982.0	9144.6	3793.1
80°	259.0	334.9	761.3	658.6	395.2	609.5	1469.0	3335.4	2333.0	1774.9	689.9
82.5°	151.8	218.8	634.0	435.3	221.0	225.5	415.3	710.0	605.0	471.1	212.1
85°	60.3	142.9	435.3	171.9	87.1	55.8	125.0	151.8	125.0	93.8	53.6
87.5°	0.0	33.5	75.9	0.0	6.7	4.5	8.9	11.2	11.2	8.9	17.9
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°	5514.4	5514.4	5514.4	5514.4	5514.4	5514.4	5514.4	5514.4	5514.4	5514.4	5514.4
2.5°	5539.0	5543.5	5556.8	5559.1	5527.8	5487.6	5472.0	5465.3	5438.5	5436.3	5440.8
5°	5606.0	5626.1	5606.0	5547.9	5409.5	5215.3	5067.9	4947.4	4838.0	4804.5	4784.4
7.5°	5739.9	5760.0	5699.7	5472.0	5123.7	4737.5	4389.2	4143.6	3922.6	3840.0	3806.5
10°	5931.9	5958.7	5768.9	5309.0	4692.8	4072.2	3482.8	3067.5	2743.8	2612.1	2556.3
12.5°	6173.0	6184.2	5806.9	5061.2	4132.5	3246.1	2411.2	1966.9	1678.9	1571.7	1538.2
15°	6438.7	6423.1	5811.4	4724.1	3368.9	2295.1	1574.0	1292.7	1176.6	1140.8	1140.8
17.5°	6717.8	6653.0	5722.1	4237.4	2531.7	1569.5	1167.6	1100.7	1080.6	1071.6	1069.4
20°	6992.4	6847.3	5559.1	3601.1	1817.3	1172.1	1060.5	1040.4	1029.2	1024.7	1020.3
22.5°	7242.4	6994.6	5280.0	2862.1	1319.4	1035.9	1002.4	984.6	964.5	955.5	953.3
25°	7485.8	7079.5	4887.1	2172.3	1056.0	968.9	942.1	908.7	881.9	870.7	866.2
27.5°	7722.4	7133.0	4395.9	1607.4	942.1	906.4	857.3	810.4	790.3	785.9	781.4
30°	7974.7	7150.9	3837.8	1198.9	872.9	828.3	756.8	703.3	692.1	694.3	694.3
32.5°	8282.8	7177.7	3275.2	982.3	814.9	734.5	649.7	593.9	584.9	593.9	591.6
35°	8651.2	7231.3	2732.7	904.2	763.5	638.5	547.0	500.1	491.2	497.9	495.6
37.5°	9151.3	7318.3	2225.9	888.6	721.1	558.1	459.9	422.0	422.0	424.2	422.0
40°	9816.6	7550.5	1772.7	877.4	698.8	497.9	388.5	372.8	379.5	384.0	384.0
42.5°	10627.0	8043.9	1466.8	864.0	674.2	471.1	352.7	346.0	357.2	361.7	361.7
45°	11535.7	8669.0	1359.6	841.7	651.9	488.9	337.1	328.2	341.6	343.8	346.0
47.5°	12475.6	9280.8	1346.2	817.1	629.6	515.7	332.7	312.6	328.2	330.4	332.7
50°	13426.6	9680.4	1359.6	779.2	593.9	515.7	334.9	296.9	310.3	317.0	319.3
52.5°	14384.4	9863.5	1350.7	696.6	531.3	484.5	334.9	283.5	296.9	301.4	301.4
55°	15313.1	9827.7	1214.5	573.8	451.0	428.7	326.0	272.4	281.3	283.5	283.5
57.5°	16047.7	9329.9	962.2	446.5	366.1	357.2	296.9	259.0	265.7	263.4	263.4
60°	16431.7	8235.9	687.6	343.8	288.0	281.3	261.2	241.1	245.6	234.4	232.2
62.5°	16436.1	6789.2	459.9	272.4	230.0	223.3	223.3	216.6	212.1	189.8	183.1
65°	16085.6	5184.0	305.9	216.6	185.3	174.1	187.5	185.3	169.7	138.4	134.0
67.5°	15290.8	3398.0	232.2	169.7	142.9	136.2	149.6	156.3	145.1	116.1	113.9
70°	13656.6	1978.1	192.0	131.7	107.2	100.5	120.6	134.0	120.6	93.8	89.3
72.5°	11343.7	1067.2	156.3	98.2	73.7	67.0	96.0	109.4	96.0	69.2	67.0
75°	7360.8	571.5	120.6	64.7	38.0	42.4	71.4	80.4	67.0	44.7	40.2
77.5°	2471.4	252.3	75.9	31.3	17.9	17.9	42.4	49.1	31.3	15.6	13.4
80°	551.4	104.9	31.3	13.4	6.7	6.7	8.9	8.9	4.5	0.0	0.0
82.5°	180.8	42.4	13.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	69.2	15.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	26.8	2.2	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)