

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: P950221

Luminaire Tested: **GALN-SB4D-727-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950221
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-SB4D-727-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 900mA 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: 28910 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

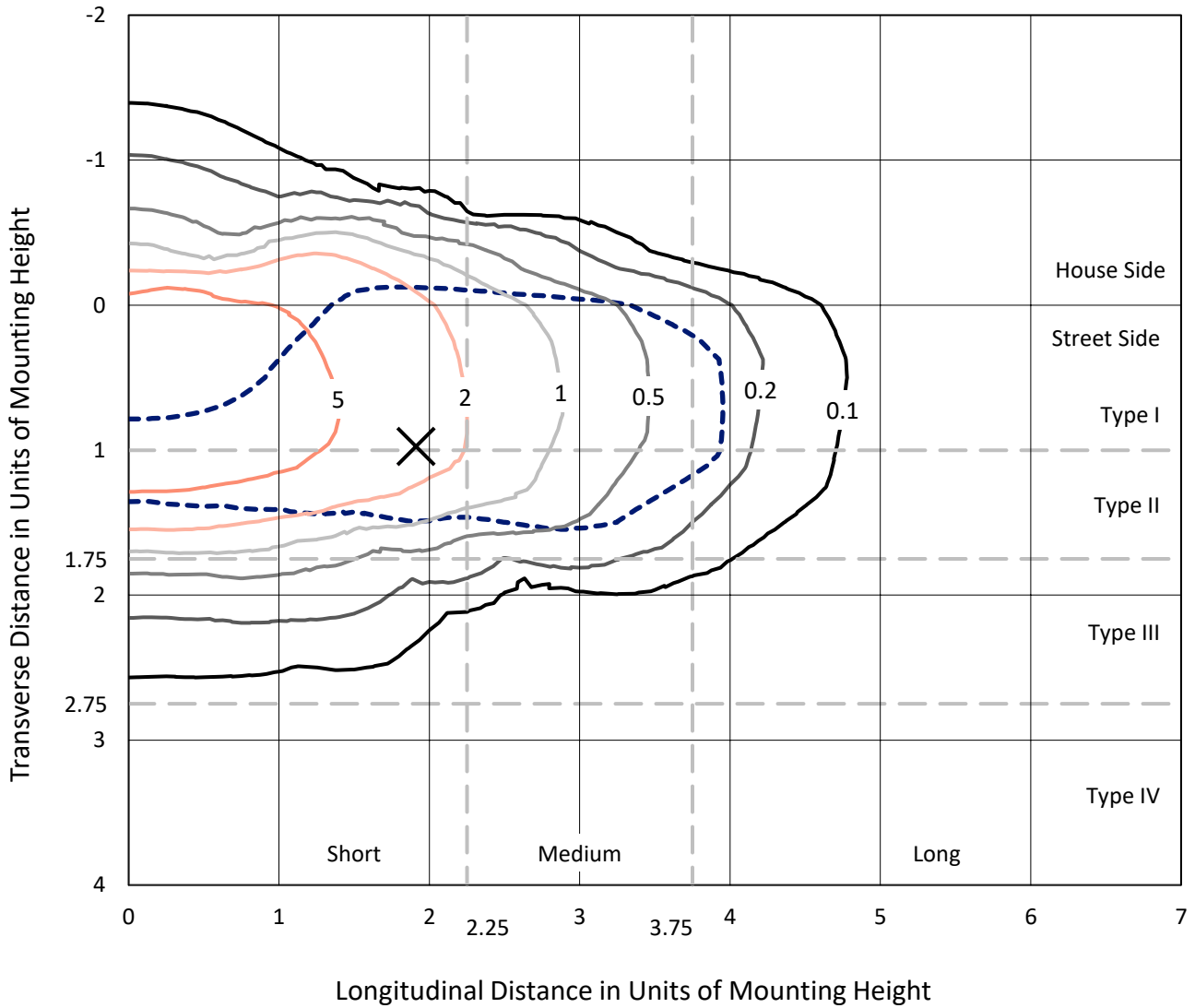
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

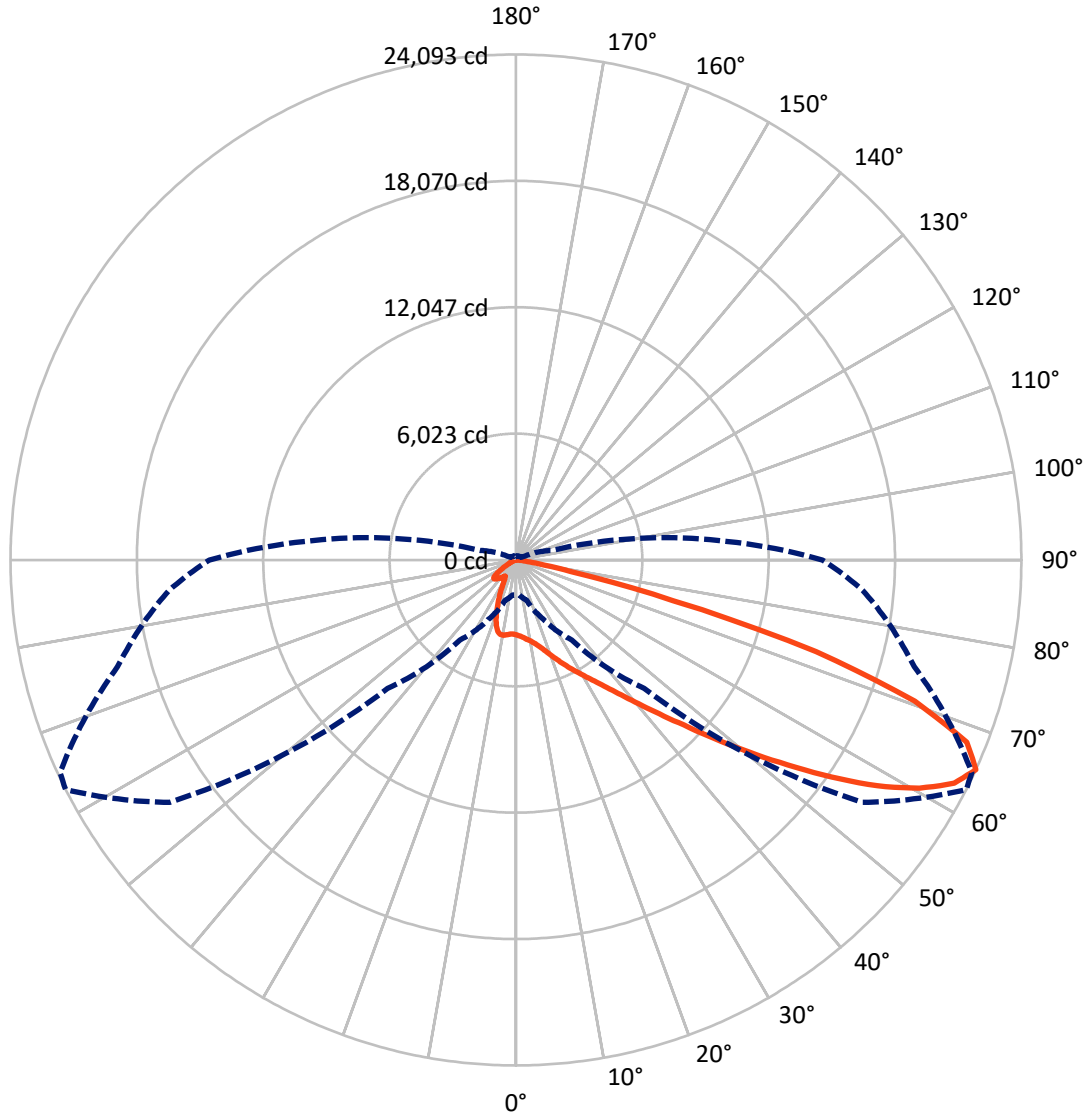
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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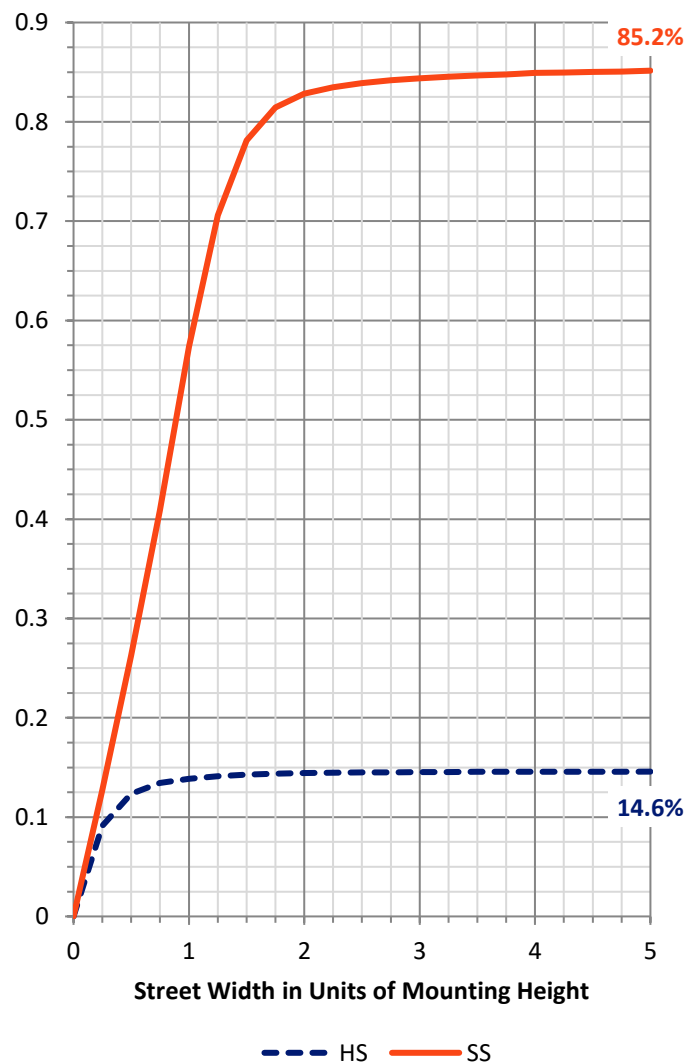
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4249.5	0.0	4249.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	24660.5	0.0	24660.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	28910.0	0.0	28910.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.2	1.2
10°-20°	932.8	3.2
20°-30°	1624.2	5.6
30°-40°	2927.4	10.1
40°-50°	5806.0	20.1
50°-60°	7908.8	27.4
60°-70°	6312.7	21.8
70°-80°	2856.6	9.9
80°-90°	205.3	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°	28910.0	100.0
0°-180°	28910.0	100.0

Coefficient of Utilization



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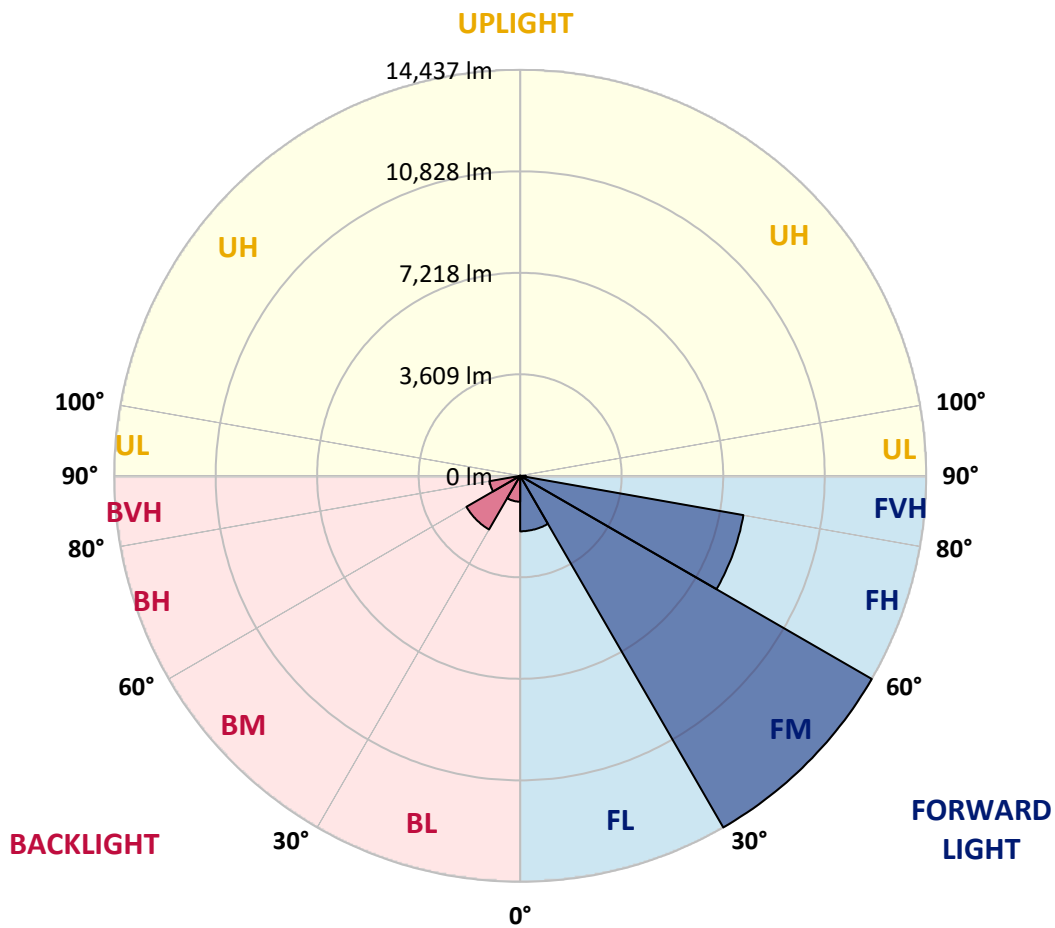
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1973.5	6.8			
FM (30°-60°)	14436.9	49.9			
FH (60°-80°)	8060.0	27.9			G4/12000
FVH (80°-90°)	190.1	0.7			G2/225
BL (0°-30°)	919.7	3.2	B2/1000		
BM (30°-60°)	2205.3	7.6	B2/2500		
BH (60°-80°)	1109.4	3.8	B3/2500		G3/2500
BVH (80°-90°)	15.2	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°	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0
2.5°	3651.6	3641.6	3655.6	3649.6	3645.6	3637.7	3633.7	3629.7	3621.7	3615.8	3591.9
5°	3661.5	3655.6	3669.5	3681.4	3693.3	3705.3	3711.2	3719.2	3711.2	3695.3	3671.5
7.5°	3578.0	3574.0	3603.8	3639.6	3693.3	3739.1	3788.8	3816.6	3818.6	3812.7	3786.8
10°	3572.0	3562.1	3591.9	3635.7	3705.3	3786.8	3874.3	3934.0	3941.9	3967.8	3940.0
12.5°	3665.5	3655.6	3697.3	3745.1	3816.6	3902.2	4009.6	4093.1	4105.0	4140.8	4120.9
15°	3822.6	3808.7	3856.4	3918.1	4009.6	4107.0	4220.4	4296.0	4305.9	4349.7	4313.9
17.5°	4005.6	3991.7	4047.4	4113.0	4212.4	4345.7	4477.0	4560.5	4572.4	4600.3	4534.6
20°	4240.3	4222.4	4266.1	4325.8	4431.2	4590.3	4747.4	4866.8	4864.8	4864.8	4757.4
22.5°	4512.8	4484.9	4522.7	4570.4	4669.9	4862.8	5071.6	5212.8	5212.8	5157.2	4980.1
25°	4805.1	4777.3	4819.0	4862.8	4950.3	5169.1	5413.7	5588.7	5596.7	5501.2	5218.8
27.5°	5171.1	5135.3	5167.1	5218.8	5270.5	5493.3	5783.6	5986.5	5990.5	5843.3	5445.5
30°	5875.1	5773.7	5674.3	5618.6	5642.4	5863.2	6173.5	6398.2	6418.1	6215.2	5692.2
32.5°	7163.9	7144.0	6794.0	6336.6	6097.9	6261.0	6609.0	6879.5	6891.4	6630.9	6012.4
35°	9166.7	9142.9	8580.0	7708.9	6931.2	6794.0	7138.1	7458.3	7450.3	7156.0	6428.0
37.5°	11557.3	11535.5	10793.6	9628.1	8369.2	7599.5	7820.3	8156.4	8206.1	7820.3	6965.0
40°	13599.9	13518.4	13049.0	11925.3	10278.5	8936.0	8790.8	9013.6	9065.3	8607.8	7647.2
42.5°	15147.3	15077.7	14839.0	14136.9	12589.6	10913.0	9934.4	10019.9	10077.6	9528.7	8430.8
45°	15948.8	15932.9	16028.3	15962.7	14944.4	13339.4	11569.3	11213.3	11235.2	10549.0	9319.9
47.5°	16062.1	16054.2	16489.8	17106.3	16969.1	16076.1	13667.5	12701.0	12623.4	11700.5	10286.5
50°	15393.9	15378.0	16213.3	17368.8	18321.5	18375.2	16050.2	14377.6	14206.5	12891.9	11294.8
52.5°	13259.8	13255.8	14628.2	16551.4	18796.8	20387.9	18405.0	16219.3	15932.9	14152.8	12360.9
55°	10202.9	10276.5	11849.7	14123.0	17929.7	21356.5	20519.2	18263.8	17824.3	15421.7	13343.4
57.5°	7227.6	7335.0	8890.3	10914.9	15240.7	20783.7	21949.2	20312.4	19839.0	16686.7	14339.8
60°	3882.3	3977.7	5535.0	7951.5	11338.6	18647.7	22703.0	22090.4	21642.9	17887.9	15238.8
62.5°	2313.1	2344.9	2989.3	5133.3	7669.1	14246.3	22382.8	23444.8	23076.9	18896.3	16020.4
65°	1660.7	1666.7	1990.9	3134.5	4656.0	8655.6	20137.4	24093.2	23979.9	19656.0	16599.1
67.5°	1398.2	1394.2	1529.4	2082.4	3172.3	4335.7	15433.7	23176.4	23657.7	20137.4	16927.3
70°	1199.3	1205.3	1364.4	1525.5	2384.7	2454.3	7673.1	20179.1	21205.4	20264.6	16907.4
72.5°	893.0	912.9	1060.1	1390.2	1799.9	1688.6	2649.2	14962.3	16817.9	19093.2	16030.3
75°	630.5	640.4	745.8	1169.5	1342.5	1229.1	1352.4	7734.7	10113.4	14638.1	13120.6
77.5°	485.3	503.2	564.8	817.4	1322.6	863.2	827.4	2677.0	4113.0	8842.5	8995.7
80°	262.5	294.4	407.7	590.7	928.8	610.6	409.7	1066.0	1394.2	4134.9	3468.6
82.5°	135.2	151.2	284.4	425.6	529.0	533.0	202.9	443.5	574.8	1276.9	475.3
85°	53.7	65.6	190.9	234.7	272.5	262.5	91.5	179.0	206.8	354.0	145.2
87.5°	11.9	19.9	69.6	53.7	51.7	55.7	21.9	41.8	39.8	41.8	25.9
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°	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0
2.5°	3589.9	3582.0	3560.1	3536.2	3508.4	3492.5	3482.5	3480.5	3466.6	3456.7	3466.6
5°	3649.6	3641.6	3599.9	3550.1	3496.4	3454.7	3414.9	3379.1	3327.4	3317.4	3313.5
7.5°	3768.9	3747.0	3679.4	3611.8	3510.4	3389.0	3241.9	3072.8	2921.7	2875.9	2854.0
10°	3916.1	3886.3	3800.7	3681.4	3456.7	3126.5	2770.5	2440.3	2177.8	2104.2	2076.4
12.5°	4083.2	4057.3	3943.9	3723.2	3231.9	2633.3	2088.3	1678.6	1424.0	1360.4	1342.5
15°	4282.0	4244.3	4087.1	3659.5	2830.2	2000.8	1434.0	1191.3	1099.8	1087.9	1076.0
17.5°	4492.9	4431.2	4214.4	3430.8	2289.2	1422.0	1107.8	1038.2	998.4	986.5	980.5
20°	4685.8	4606.2	4290.0	3084.7	1710.4	1107.8	992.4	946.7	910.9	897.0	889.0
22.5°	4878.7	4765.3	4290.0	2613.4	1282.8	982.5	910.9	869.1	827.4	809.5	799.5
25°	5079.6	4928.4	4214.4	2088.3	1032.2	901.0	833.3	787.6	751.8	729.9	722.0
27.5°	5274.5	5065.7	4041.4	1591.1	918.9	829.4	761.7	718.0	684.2	668.3	668.3
30°	5459.5	5200.9	3798.7	1207.2	845.3	759.7	696.1	658.3	624.5	608.6	610.6
32.5°	5710.1	5371.9	3540.2	990.5	781.6	694.1	636.4	600.6	570.8	558.9	558.9
35°	6058.1	5624.5	3317.4	972.6	727.9	640.4	582.7	548.9	519.1	509.2	509.2
37.5°	6551.4	6032.3	3200.1	1091.9	684.2	592.7	539.0	503.2	475.3	467.4	465.4
40°	7159.9	6585.2	3263.7	1211.2	654.3	550.9	499.2	463.4	439.5	429.6	427.6
42.5°	7881.9	7267.3	3615.8	1302.7	634.5	515.1	461.4	421.6	405.7	401.8	401.8
45°	8711.3	8017.2	4154.8	1400.2	602.6	481.3	423.6	393.8	381.9	379.9	377.9
47.5°	9654.0	8840.5	4779.3	1521.5	570.8	449.5	393.8	373.9	364.0	360.0	360.0
50°	10588.8	9669.9	5421.7	1589.1	545.0	419.7	369.9	354.0	346.1	344.1	344.1
52.5°	11567.3	10523.1	5940.8	1525.5	523.1	395.8	350.0	338.1	330.2	328.2	328.2
55°	12500.1	11213.3	6030.3	1294.8	479.3	371.9	328.2	322.2	312.3	312.3	310.3
57.5°	13303.6	11559.3	5397.8	950.7	435.6	336.1	306.3	300.3	292.4	290.4	288.4
60°	14041.5	11459.9	4166.7	640.4	387.8	300.3	278.4	274.5	266.5	256.6	254.6
62.5°	14457.1	11022.3	2850.1	417.7	340.1	262.5	246.6	244.6	226.7	206.8	202.9
65°	14614.2	10123.4	1778.1	304.3	284.4	224.7	212.8	208.8	183.0	161.1	159.1
67.5°	14477.0	8643.6	897.0	240.7	224.7	187.0	175.0	175.0	157.1	137.2	135.2
70°	13928.1	6479.8	377.9	192.9	173.0	143.2	143.2	151.2	133.3	111.4	109.4
72.5°	12736.8	4359.6	200.9	147.2	129.3	101.4	117.3	123.3	105.4	83.5	83.5
75°	10125.4	2659.1	139.2	109.4	81.5	71.6	89.5	93.5	71.6	55.7	53.7
77.5°	6925.3	1527.5	93.5	69.6	51.7	41.8	61.7	57.7	37.8	25.9	27.8
80°	3041.0	636.4	53.7	31.8	19.9	15.9	21.9	15.9	11.9	8.0	8.0
82.5°	356.0	149.2	19.9	11.9	8.0	4.0	2.0	0.0	0.0	0.0	0.0
85°	73.6	17.9	9.9	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.9	4.0	2.0	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)