

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P640525

Luminaire Tested: GWS-SA5E-722-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-722-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20713.2 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

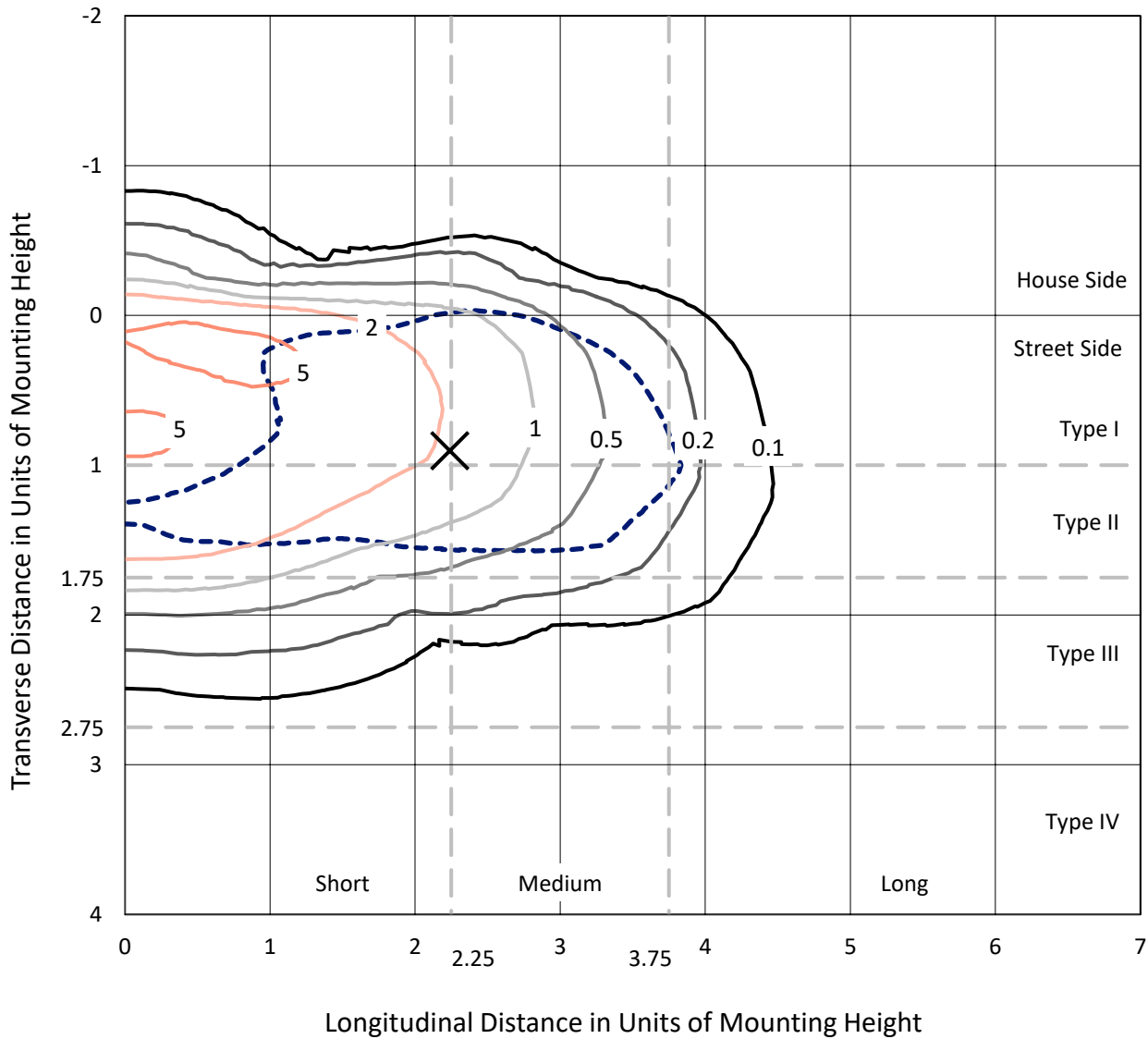
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

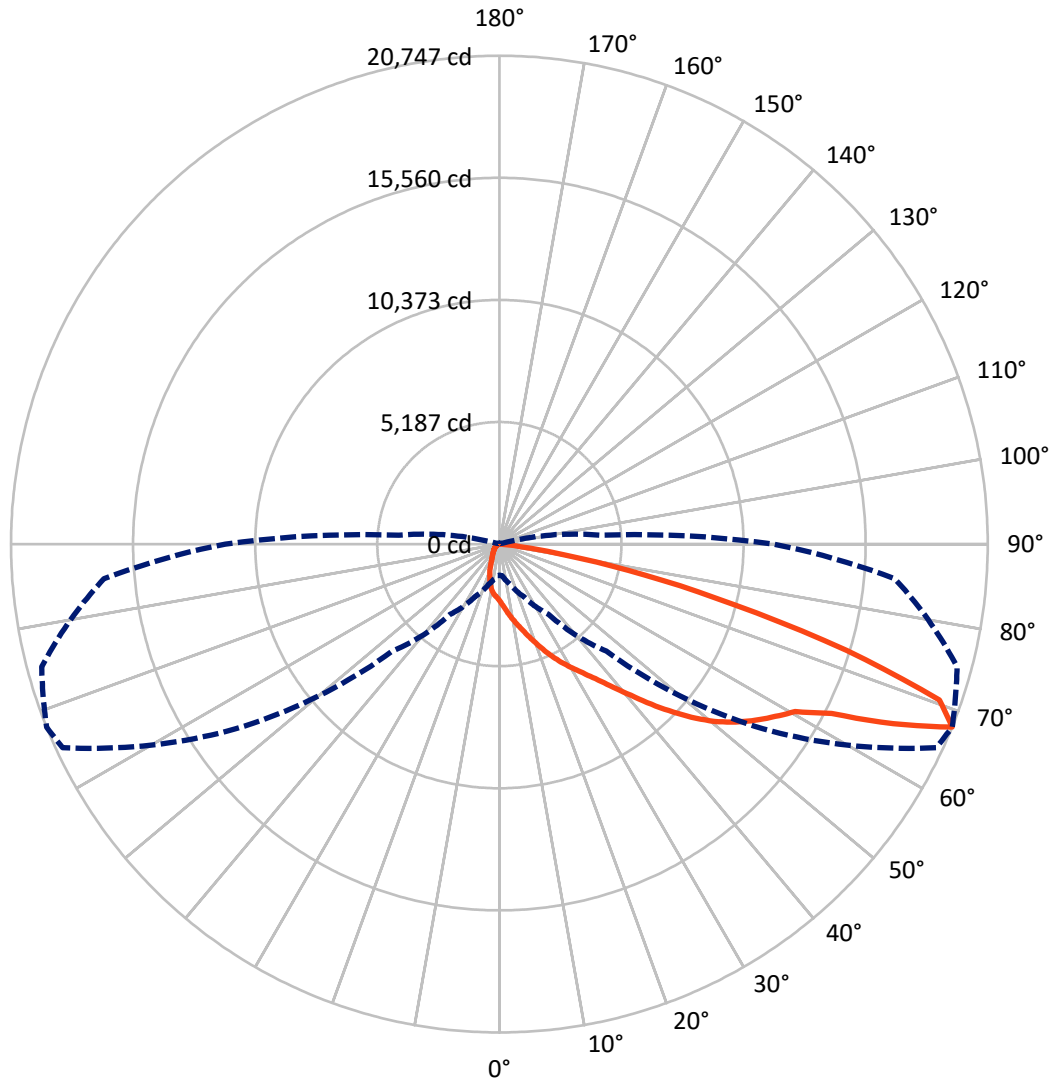
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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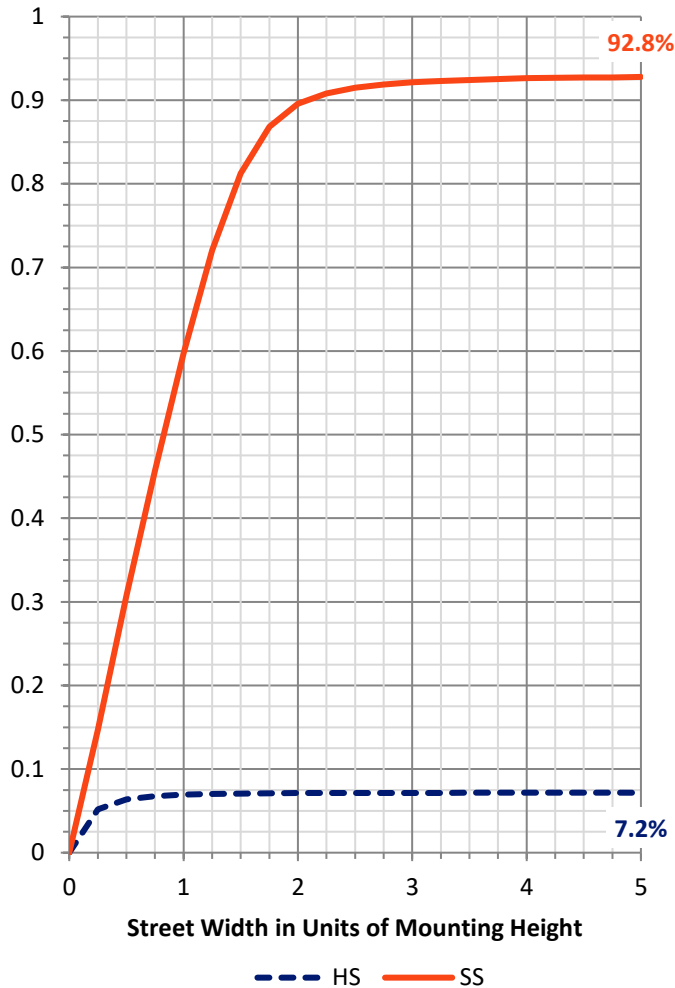
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1495.7	0.0	1495.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	19217.5	0.0	19217.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	20713.2	0.0	20713.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.1	1.1
10°-20°	675.1	3.3
20°-30°	1160.2	5.6
30°-40°	2017.2	9.7
40°-50°	3519.7	17.0
50°-60°	5308.7	25.6
60°-70°	5323.2	25.7
70°-80°	2348.6	11.3
80°-90°	125.5	0.6
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°	20713.2	100.0
0°-180°	20713.2	100.0

Coefficient of Utilization



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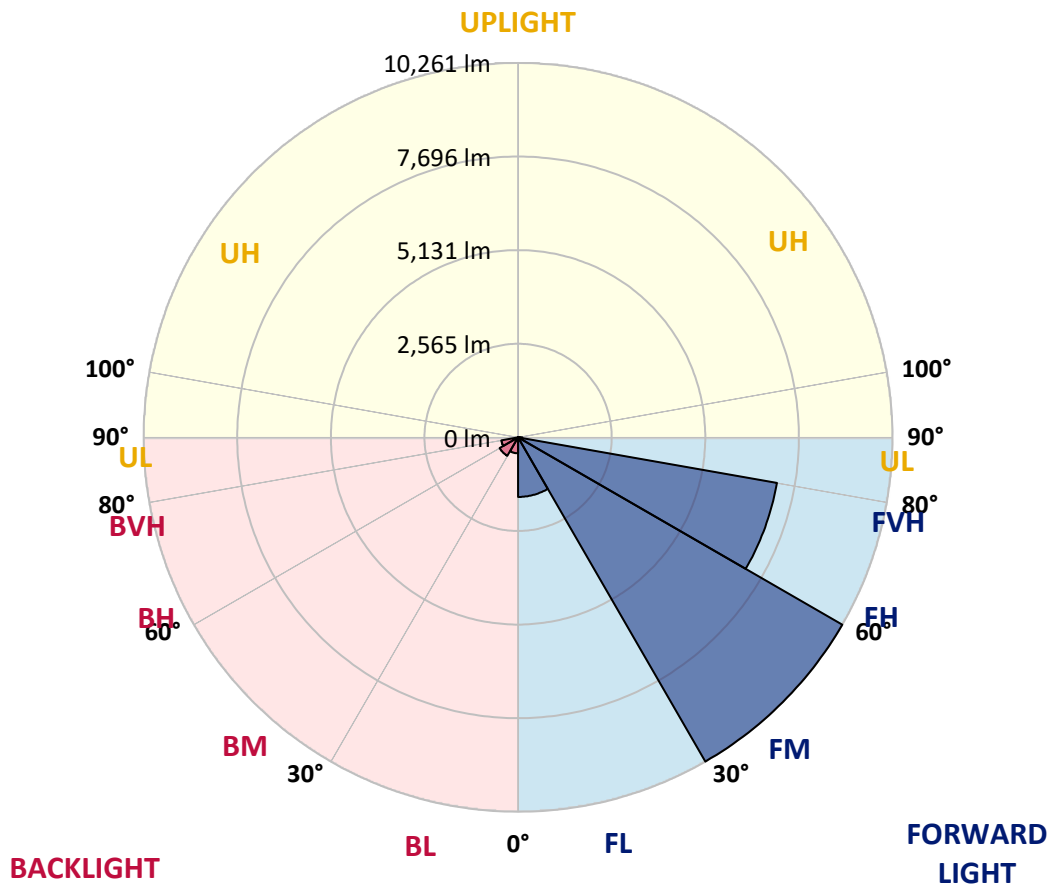
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1632.8	7.9			
FM (30°-60°)	10261.3	49.5			
FH (60°-80°)	7205.0	34.8			G3/7500
FVH (80°-90°)	118.4	0.6			G2/225
BL (0°-30°)	437.6	2.1	B1/500		
BM (30°-60°)	584.3	2.8	B1/1000		
BH (60°-80°)	466.8	2.3	B1/500		G1/500
BVH (80°-90°)	7.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	2410.5	2410.5	2410.5	2410.5	2410.5	2410.5	2410.5	2410.5	2410.5	2410.5	2410.5
2.5°	2807.0	2824.8	2807.0	2810.9	2759.4	2735.6	2684.0	2612.7	2594.8	2549.3	2479.9
5°	3149.9	3165.8	3147.9	3143.9	3084.5	3040.9	2955.6	2832.7	2797.0	2707.8	2571.1
7.5°	3336.2	3346.1	3352.1	3362.0	3340.2	3304.5	3227.2	3074.6	3036.9	2892.2	2699.9
10°	3356.1	3364.0	3393.7	3453.2	3496.8	3518.6	3475.0	3334.2	3274.8	3134.0	2858.5
12.5°	3300.5	3312.4	3360.0	3459.1	3580.1	3691.1	3718.8	3595.9	3542.4	3362.0	3044.8
15°	3227.2	3237.1	3302.5	3437.3	3619.7	3823.9	3938.9	3885.3	3825.9	3637.5	3251.0
17.5°	3114.2	3128.1	3219.3	3401.6	3637.5	3928.9	4176.7	4194.6	4152.9	3948.8	3479.0
20°	3050.8	3060.7	3142.0	3330.3	3625.6	4006.2	4398.7	4567.2	4521.7	4307.6	3740.6
22.5°	3104.3	3112.2	3165.8	3312.4	3586.0	4049.9	4604.9	4939.9	4914.1	4692.1	4016.2
25°	3385.8	3411.6	3379.8	3405.6	3603.8	4073.6	4771.4	5312.6	5318.5	5094.5	4301.6
27.5°	3956.7	3923.0	3847.7	3718.8	3742.6	4137.1	4914.1	5663.5	5715.0	5487.0	4555.3
30°	4537.5	4517.7	4472.1	4271.9	4105.4	4277.8	5035.1	6022.3	6103.5	5873.6	4781.3
32.5°	5189.7	5209.5	5128.2	4888.4	4604.9	4563.3	5160.0	6363.2	6515.9	6311.7	5047.0
35°	5968.7	5974.7	5814.1	5548.5	5227.4	5035.1	5384.0	6739.9	7021.3	6870.7	5401.8
37.5°	6728.0	6763.6	6676.4	6258.2	5972.7	5621.8	5754.6	7223.5	7620.0	7560.5	5847.8
40°	7400.0	7455.5	7427.7	7023.3	6648.7	6353.3	6329.5	7790.5	8343.5	8410.9	6436.6
42.5°	7935.2	7970.9	7992.7	7705.2	7374.2	7207.7	7039.2	8448.6	9197.9	9473.5	7158.1
45°	8500.1	8512.0	8557.6	8363.4	8074.0	8087.8	7877.7	9247.5	10097.9	10651.0	7986.7
47.5°	9219.7	9259.4	9237.6	9033.4	8771.7	8928.3	8744.0	10070.1	10986.0	11907.7	8835.2
50°	10095.9	10137.5	10117.7	9879.8	9588.4	9653.9	9538.9	10869.0	11842.3	13093.2	9540.9
52.5°	10547.9	10581.6	10827.4	10934.4	10781.8	10365.5	10216.8	11747.2	12565.9	14068.5	10189.1
55°	10329.8	10353.6	10888.8	11340.8	11899.8	11483.5	10898.7	12425.1	13204.2	14829.7	10670.8
57.5°	9425.9	9554.7	10282.2	11047.4	12222.9	12587.7	12004.9	13162.5	13818.7	15358.9	11144.6
60°	7572.4	7566.5	8609.2	9982.9	11592.6	12891.0	13566.9	14159.6	14435.2	15765.3	11778.9
62.5°	4184.7	4222.3	5609.9	7419.8	9840.2	12106.0	14738.5	15882.3	15840.6	16475.0	12772.0
65°	2083.4	2158.7	2912.0	4250.1	6547.6	10004.7	14940.7	18510.8	18391.9	18146.1	14823.7
67.5°	1322.2	1351.9	1768.2	2470.0	3639.5	6430.6	13681.9	20471.3	20746.9	20128.4	16859.6
70°	856.4	905.9	1229.0	1688.9	2196.4	3314.4	10022.6	19200.7	19833.0	19910.3	15590.9
72.5°	465.8	501.5	785.0	1205.2	1585.8	1657.2	5629.8	14409.4	15426.3	16889.3	12197.2
75°	265.6	291.4	430.2	818.7	1163.6	1009.0	2495.7	9645.9	10294.1	12070.3	8740.0
77.5°	160.6	182.4	241.8	398.4	729.5	674.0	943.6	5871.6	6283.9	7201.7	4587.1
80°	73.3	87.2	152.6	220.0	398.4	319.2	360.8	2737.6	2826.8	2955.6	1518.4
82.5°	33.7	39.6	69.4	130.8	226.0	184.4	138.8	632.4	890.1	842.5	386.6
85°	4.0	4.0	25.8	53.5	63.4	47.6	57.5	142.7	180.4	253.7	111.0
87.5°	0.0	0.0	2.0	2.0	4.0	5.9	11.9	17.8	25.8	41.6	27.8
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°	2410.5	2410.5	2410.5	2410.5	2410.5	2410.5	2410.5	2410.5	2410.5	2410.5	2410.5
2.5°	2448.2	2392.6	2343.1	2269.7	2220.2	2164.7	2127.0	2081.4	2063.6	2049.7	2029.9
5°	2503.7	2414.5	2293.5	2158.7	2047.7	1942.7	1845.5	1782.1	1726.6	1718.7	1690.9
7.5°	2594.8	2462.0	2257.9	2037.8	1849.5	1675.1	1538.3	1427.3	1371.8	1353.9	1322.2
10°	2715.8	2533.4	2204.3	1867.3	1595.8	1387.6	1233.0	1108.1	1020.9	989.2	965.4
12.5°	2850.6	2598.8	2119.1	1657.2	1348.0	1110.1	913.8	781.0	725.5	705.7	687.9
15°	3005.2	2660.3	1984.3	1447.1	1106.1	816.7	678.0	620.5	596.7	590.7	584.8
17.5°	3153.9	2699.9	1823.7	1229.0	850.4	634.3	568.9	547.1	541.2	535.2	531.3
20°	3322.4	2727.7	1635.4	1022.9	660.1	537.2	505.5	489.6	477.7	465.8	463.9
22.5°	3494.8	2727.7	1431.2	820.7	553.1	481.7	446.0	416.3	394.5	382.6	378.6
25°	3659.3	2690.0	1229.0	656.1	487.6	428.2	382.6	348.9	319.2	305.3	301.3
27.5°	3776.3	2592.9	1052.6	555.0	442.1	380.6	325.1	287.4	263.6	249.8	247.8
30°	3849.6	2448.2	890.1	495.6	402.4	331.0	275.5	243.8	226.0	216.1	212.1
32.5°	3905.2	2269.7	745.3	453.9	364.7	287.4	239.9	214.1	198.2	190.3	188.3
35°	4016.2	2101.2	638.3	416.3	325.1	251.8	210.1	190.3	178.4	168.5	166.5
37.5°	4170.8	1960.5	553.1	382.6	287.4	224.0	190.3	172.5	162.5	152.6	150.7
40°	4398.7	1871.3	489.6	348.9	253.7	202.2	174.4	158.6	144.7	134.8	132.8
42.5°	4749.6	1829.7	448.0	315.2	224.0	182.4	160.6	140.7	126.9	117.0	115.0
45°	5167.9	1851.5	412.3	281.5	204.2	168.5	142.7	122.9	109.0	99.1	97.1
47.5°	5615.9	1928.8	382.6	249.8	184.4	154.6	126.9	105.1	93.2	83.3	81.3
50°	6083.7	2055.7	356.8	220.0	168.5	138.8	109.0	91.2	79.3	71.4	69.4
52.5°	6490.1	2228.1	331.0	198.2	154.6	122.9	95.2	79.3	67.4	59.5	57.5
55°	6878.6	2390.7	311.2	178.4	138.8	107.0	83.3	67.4	57.5	49.6	47.6
57.5°	7300.9	2563.1	287.4	160.6	124.9	95.2	73.3	57.5	49.6	41.6	39.6
60°	7915.4	2818.8	251.8	146.7	109.0	83.3	63.4	51.5	43.6	33.7	31.7
62.5°	8801.5	3284.7	212.1	126.9	93.2	71.4	53.5	43.6	35.7	27.8	23.8
65°	10458.7	4077.6	174.4	105.1	75.3	59.5	45.6	35.7	27.8	19.8	17.8
67.5°	11652.0	4283.8	140.7	85.2	61.5	45.6	37.7	27.8	19.8	13.9	11.9
70°	10187.1	3076.5	109.0	69.4	51.5	35.7	29.7	21.8	13.9	9.9	7.9
72.5°	7675.5	2010.1	81.3	53.5	39.6	29.7	21.8	17.8	11.9	7.9	5.9
75°	5409.7	1161.6	59.5	39.6	27.8	21.8	17.8	13.9	9.9	5.9	5.9
77.5°	2773.3	479.7	41.6	27.8	19.8	13.9	11.9	7.9	7.9	5.9	4.0
80°	842.5	158.6	23.8	17.8	13.9	9.9	5.9	5.9	5.9	4.0	2.0
82.5°	192.3	51.5	13.9	13.9	9.9	7.9	5.9	2.0	2.0	0.0	0.0
85°	49.6	15.9	11.9	9.9	9.9	7.9	4.0	2.0	0.0	0.0	0.0
87.5°	17.8	9.9	9.9	9.9	7.9	5.9	4.0	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)