

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: P531440

Luminaire Tested: **GALN-SA6D-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531440
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-727-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33712 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

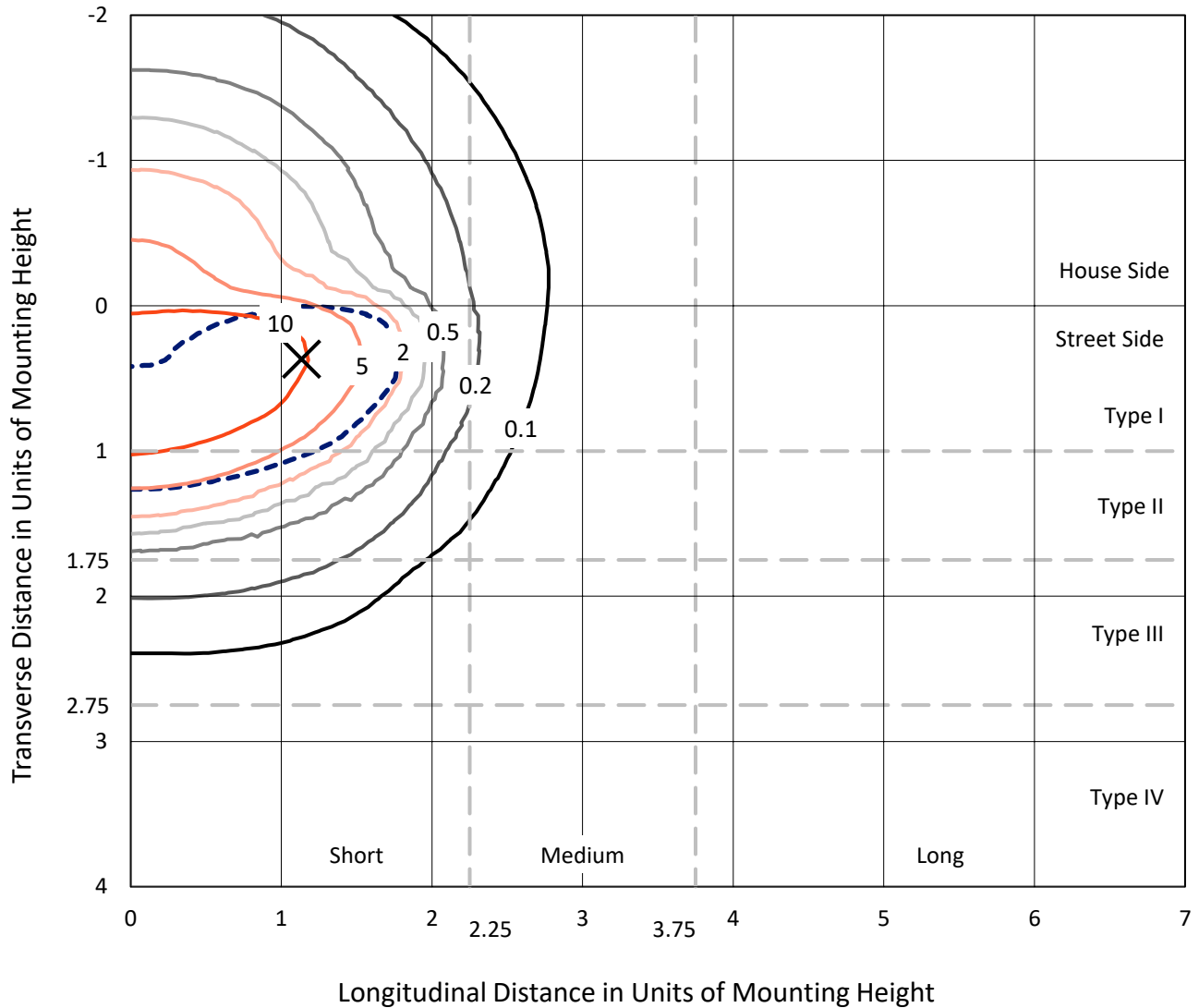
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

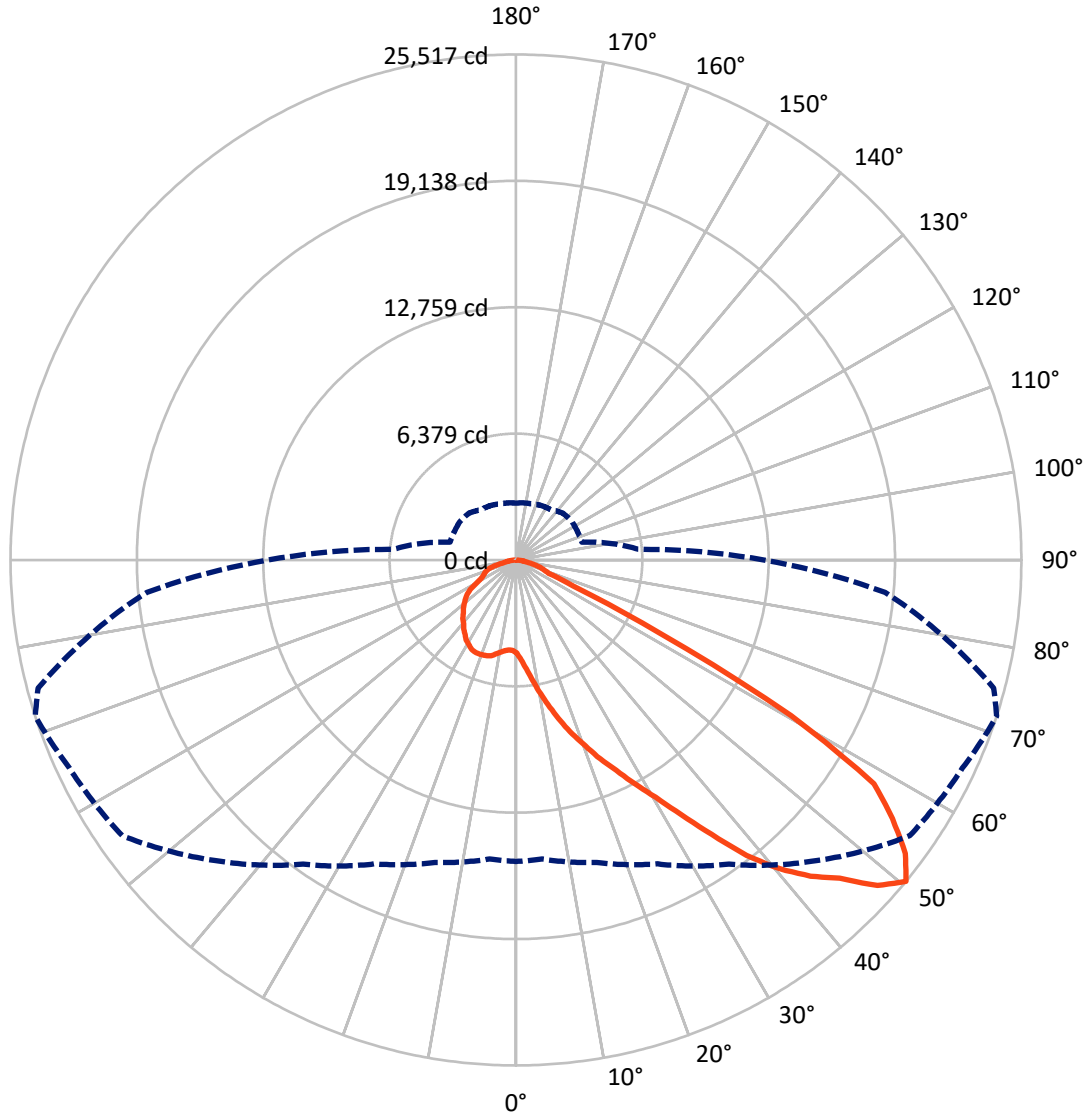
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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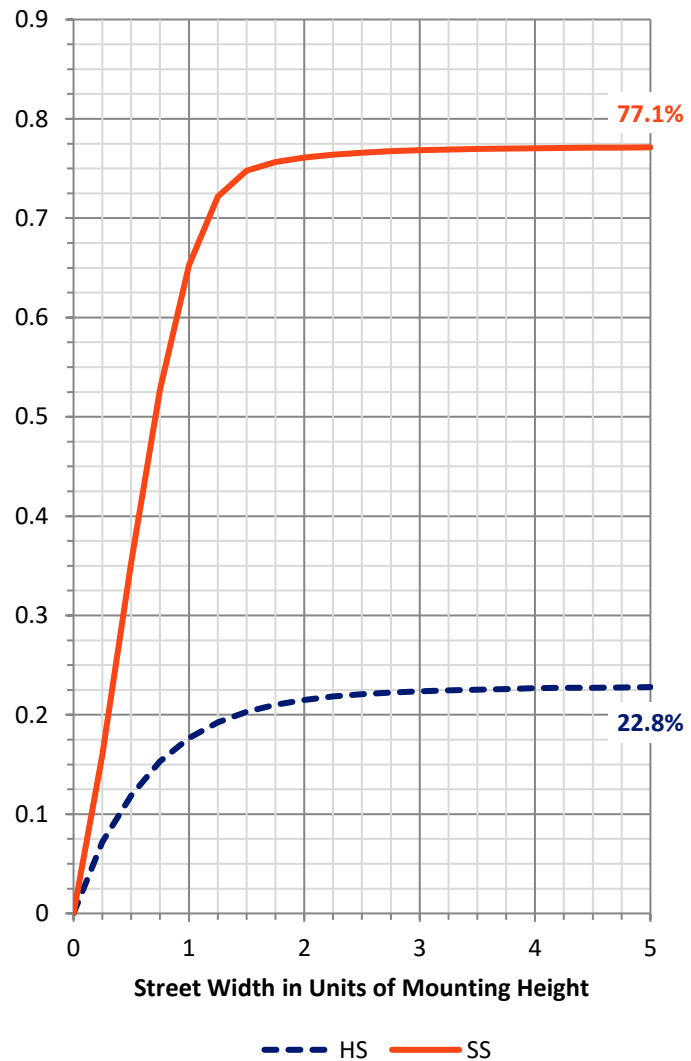
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7723.6	0.0	7723.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	25988.4	0.0	25988.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	33712.0	0.0	33712.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.0	1.6
10°-20°	2063.6	6.1
20°-30°	4001.2	11.9
30°-40°	6628.6	19.7
40°-50°	9274.9	27.5
50°-60°	7824.6	23.2
60°-70°	2384.9	7.1
70°-80°	836.7	2.5
80°-90°	145.5	0.4
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°	33712.0	100.0
0°-180°	33712.0	100.0

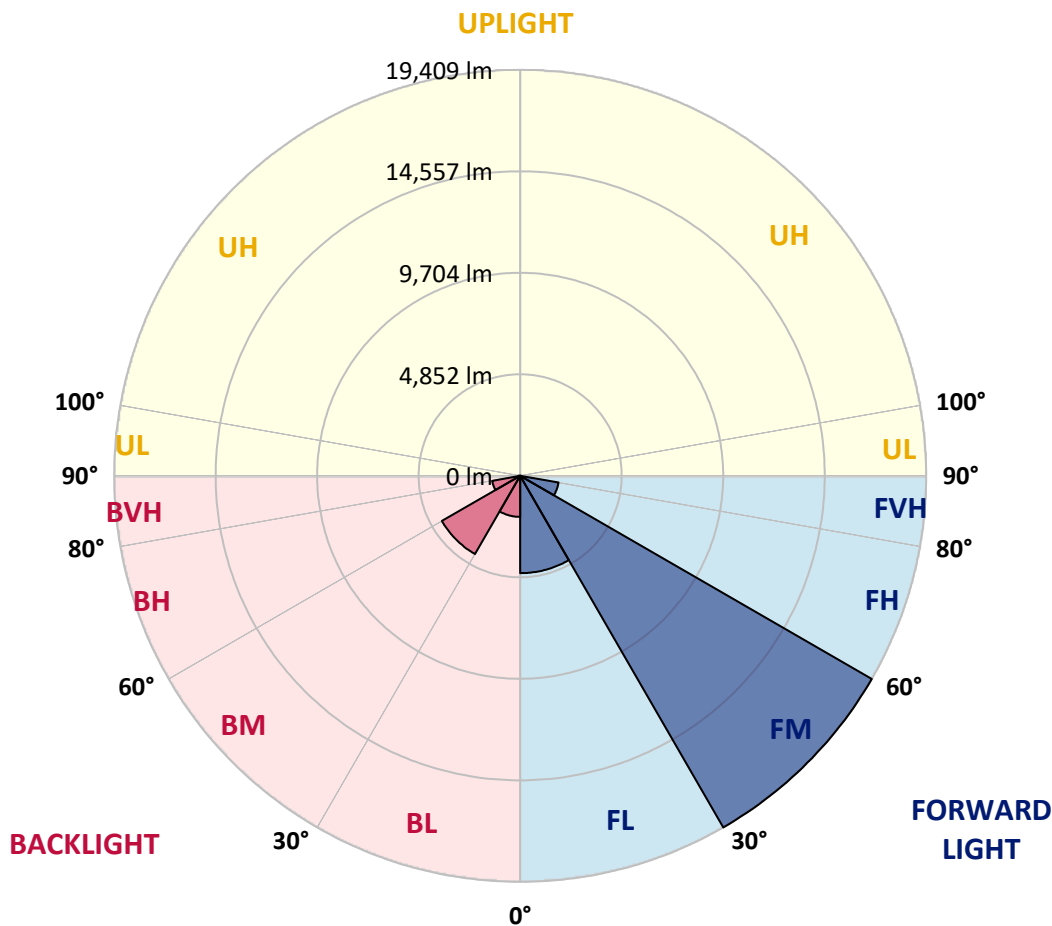


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4653.5	13.8			
FM (30°-60°)	19408.9	57.6			
FH (60°-80°)	1860.8	5.5			G2/5000
FVH (80°-90°)	65.2	0.2			G1/100
BL (0°-30°)	1963.4	5.8	B3/2500		
BM (30°-60°)	4319.2	12.8	B3/5000		
BH (60°-80°)	1360.8	4.0	B3/2500		G3/2500
BVH (80°-90°)	80.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0
2.5°	6036.2	5998.7	5886.1	5848.5	5715.0	5473.1	5389.6	5143.5	5039.2	4943.3	4830.7
5°	7633.9	7458.7	7446.2	7233.5	6924.8	6745.4	6211.4	5852.7	5523.1	5356.3	5047.6
7.5°	8651.8	8656.0	8656.0	8480.8	8234.6	7779.9	7300.2	6653.6	6157.2	5911.1	5385.5
10°	9619.6	9536.2	9490.3	9473.6	9306.7	8864.6	8351.5	7550.5	6870.5	6582.7	5639.9
12.5°	10303.7	10232.8	10337.1	10282.9	10161.9	9874.1	9390.2	8476.6	7625.6	7237.6	6048.8
15°	10629.1	10679.2	10762.6	10912.8	10858.6	10750.1	10216.1	9427.7	8439.1	8001.0	6411.7
17.5°	11129.7	10992.0	11092.2	11279.9	11430.1	11380.0	11075.5	10116.0	9244.2	8706.0	6899.7
20°	11480.1	11400.9	11450.9	11667.8	11780.5	12064.1	11905.6	11017.1	10015.9	9448.6	7475.4
22.5°	12481.3	12364.5	12201.8	12235.2	12276.9	12477.1	12514.7	12005.7	10912.8	10312.1	8021.9
25°	13716.1	13607.6	13415.7	13219.7	13098.7	13061.1	13190.5	12781.6	11772.1	11150.6	8610.1
27.5°	15076.0	14892.4	14771.5	14366.8	14041.4	13991.4	13928.8	13707.7	12790.0	12118.4	9273.4
30°	16398.4	16252.4	16089.7	15443.1	15105.2	15051.0	14742.3	14804.8	13895.4	13148.7	10024.2
32.5°	17399.6	17412.1	17040.8	16552.7	16235.7	15947.8	15835.2	16014.6	15313.8	14713.1	10862.7
35°	18208.8	18246.4	17891.8	17449.6	17107.5	17307.8	17257.7	17341.1	17007.4	16273.2	11838.9
37.5°	18997.3	18809.5	18429.9	18217.2	18037.8	18367.4	18792.8	18863.8	18926.3	18062.8	12973.5
40°	19126.6	19143.3	18922.2	19072.3	18847.1	19343.5	20332.2	20240.4	20494.8	19739.8	14204.1
42.5°	18943.0	18980.6	19068.2	19280.9	19823.2	20419.8	21888.1	21512.7	21821.4	21149.8	15401.4
45°	18642.7	18488.3	18596.8	19406.1	20344.7	21671.2	23310.6	23018.6	22918.5	22355.4	16828.0
47.5°	17207.7	17366.2	17704.1	18701.1	20111.1	21888.1	24320.2	24253.4	24553.8	24157.5	18125.4
50°	15217.8	15155.3	15806.0	16928.2	18747.0	21462.6	24265.9	24870.8	25517.4	24966.7	18705.2
52.5°	11396.7	11730.4	12289.4	13682.7	16277.4	19143.3	23081.2	24090.7	24616.3	24499.5	18238.0
55°	7204.3	7304.4	7642.3	9298.4	11634.5	15363.8	19785.7	22125.9	23064.5	23502.5	17808.4
57.5°	3499.9	3312.2	3725.2	5055.9	6720.4	10332.9	15259.5	19272.6	21312.5	22105.1	16873.9
60°	1827.1	1898.1	2060.7	2536.3	3474.9	5364.6	9511.1	12844.2	15960.4	17178.5	12790.0
62.5°	1514.3	1539.3	1647.8	1885.5	2311.0	3086.9	4855.7	6261.5	8138.7	9235.8	7275.2
65°	1284.8	1297.4	1414.2	1572.7	1843.8	2173.4	2498.8	2615.6	3166.2	3249.6	2586.4
67.5°	1072.1	1084.6	1209.8	1359.9	1535.1	1622.7	1706.2	1697.8	1760.4	1735.4	1731.2
70°	826.0	838.5	967.8	1126.3	1213.9	1163.9	1422.5	1480.9	1505.9	1526.8	1560.2
72.5°	596.5	621.6	721.7	834.3	788.4	905.2	1172.2	1259.8	1293.2	1305.7	1347.4
75°	433.8	442.2	467.2	433.8	500.6	629.9	826.0	934.4	976.1	988.7	1051.2
77.5°	191.9	196.1	200.2	250.3	321.2	392.1	492.2	579.8	638.2	654.9	671.6
80°	100.1	104.3	129.3	171.0	229.4	287.8	358.8	408.8	446.4	450.5	467.2
82.5°	62.6	66.7	91.8	121.0	162.7	212.7	262.8	304.5	333.7	337.9	342.1
85°	29.2	37.5	54.2	75.1	108.5	137.7	141.8	121.0	129.3	133.5	125.1
87.5°	8.3	12.5	16.7	12.5	16.7	16.7	20.9	25.0	25.0	25.0	29.2
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°	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0
2.5°	4768.1	4730.5	4584.5	4530.3	4388.5	4413.5	4338.4	4334.2	4317.6	4313.4	4309.2
5°	4884.9	4768.1	4592.9	4459.4	4380.1	4371.8	4317.6	4317.6	4334.2	4346.8	4317.6
7.5°	5076.8	4943.3	4647.1	4522.0	4451.0	4438.5	4401.0	4371.8	4409.3	4396.8	4363.4
10°	5297.9	5064.3	4751.4	4642.9	4526.1	4496.9	4496.9	4509.4	4446.9	4467.7	4434.4
12.5°	5544.0	5231.1	4884.9	4759.7	4622.1	4605.4	4597.1	4505.3	4538.7	4522.0	4438.5
15°	5856.9	5423.0	5055.9	4843.2	4726.4	4651.3	4542.8	4526.1	4505.3	4463.6	4426.0
17.5°	6194.8	5631.6	5135.2	4868.2	4693.0	4638.8	4555.3	4467.7	4405.2	4413.5	4384.3
20°	6482.6	5823.5	5164.4	4893.2	4668.0	4563.7	4434.4	4380.1	4313.4	4309.2	4305.0
22.5°	6824.7	6082.1	5206.1	4826.5	4592.9	4484.4	4396.8	4300.9	4255.0	4196.6	4225.8
25°	7233.5	6182.2	5214.4	4788.9	4538.7	4346.8	4300.9	4196.6	4179.9	4096.5	4113.2
27.5°	7529.7	6236.5	5147.7	4672.1	4413.5	4267.5	4184.1	4109.0	4079.8	4017.2	4000.5
30°	7926.0	6319.9	5005.9	4526.1	4288.4	4125.7	4075.6	4058.9	3975.5	3908.7	3900.4
32.5°	8376.5	6374.1	4914.1	4376.0	4159.0	4033.9	4058.9	3979.7	3875.4	3817.0	3800.3
35°	8735.2	6395.0	4684.7	4204.9	4071.4	3992.2	3963.0	3946.3	3796.1	3741.9	3700.2
37.5°	9281.7	6349.1	4492.8	4084.0	3975.5	3946.3	3921.3	3808.6	3637.6	3558.3	3499.9
40°	9920.0	6336.6	4246.6	3912.9	3883.7	3917.1	3842.0	3666.8	3429.0	3341.4	3299.7
42.5°	10533.2	6424.2	4092.3	3821.1	3783.6	3796.1	3691.8	3429.0	3312.2	3262.2	3195.4
45°	11559.4	6607.7	3837.8	3679.3	3662.6	3654.3	3529.1	3253.8	3187.1	3124.5	3112.0
47.5°	12485.5	6486.8	3675.1	3533.3	3550.0	3504.1	3237.1	3149.5	3074.4	3011.9	2991.0
50°	12539.7	6198.9	3445.7	3420.7	3424.8	3345.6	3091.1	3032.7	2936.8	2895.1	2865.9
52.5°	12256.0	5727.5	3233.0	3241.3	3253.8	3124.5	2911.7	2870.0	2790.8	2732.4	2715.7
55°	11459.3	4993.3	3024.4	3057.7	3091.1	2845.0	2778.3	2674.0	2611.4	2528.0	2532.1
57.5°	10095.2	4021.4	2732.4	2786.6	2857.5	2586.4	2536.3	2407.0	2315.2	2248.5	2240.1
60°	6766.3	2861.7	2294.4	2315.2	2473.7	2365.3	2361.1	2231.8	2106.6	2048.2	2014.9
62.5°	3992.2	2185.9	1981.5	1960.6	1956.5	2019.0	2123.3	2077.4	1914.7	1802.1	1835.5
65°	2089.9	1889.7	1843.8	1772.9	1731.2	1714.5	1793.8	1814.6	1706.2	1585.2	1576.8
67.5°	1756.2	1756.2	1718.7	1693.7	1635.2	1564.3	1514.3	1447.5	1430.8	1397.5	1355.8
70°	1597.7	1639.4	1626.9	1568.5	1518.4	1439.2	1309.9	1201.4	1097.1	1059.6	1084.6
72.5°	1393.3	1435.0	1435.0	1405.8	1339.1	1218.1	1092.9	967.8	880.2	813.5	805.1
75°	1072.1	1092.9	1143.0	1109.6	1022.0	946.9	817.6	688.3	604.9	542.3	529.8
77.5°	684.1	717.5	717.5	713.3	650.8	579.8	496.4	404.6	342.1	296.2	283.7
80°	454.7	475.6	492.2	475.6	433.8	379.6	317.0	254.5	208.6	171.0	162.7
82.5°	333.7	358.8	371.3	354.6	312.9	271.2	225.3	179.4	133.5	104.3	95.9
85°	129.3	133.5	150.2	179.4	175.2	171.0	137.7	100.1	75.1	54.2	50.1
87.5°	33.4	29.2	33.4	33.4	29.2	25.0	25.0	25.0	25.0	12.5	16.7
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)