

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: P533772

Luminaire Tested: **GALN-SA9B-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-727-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36497 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

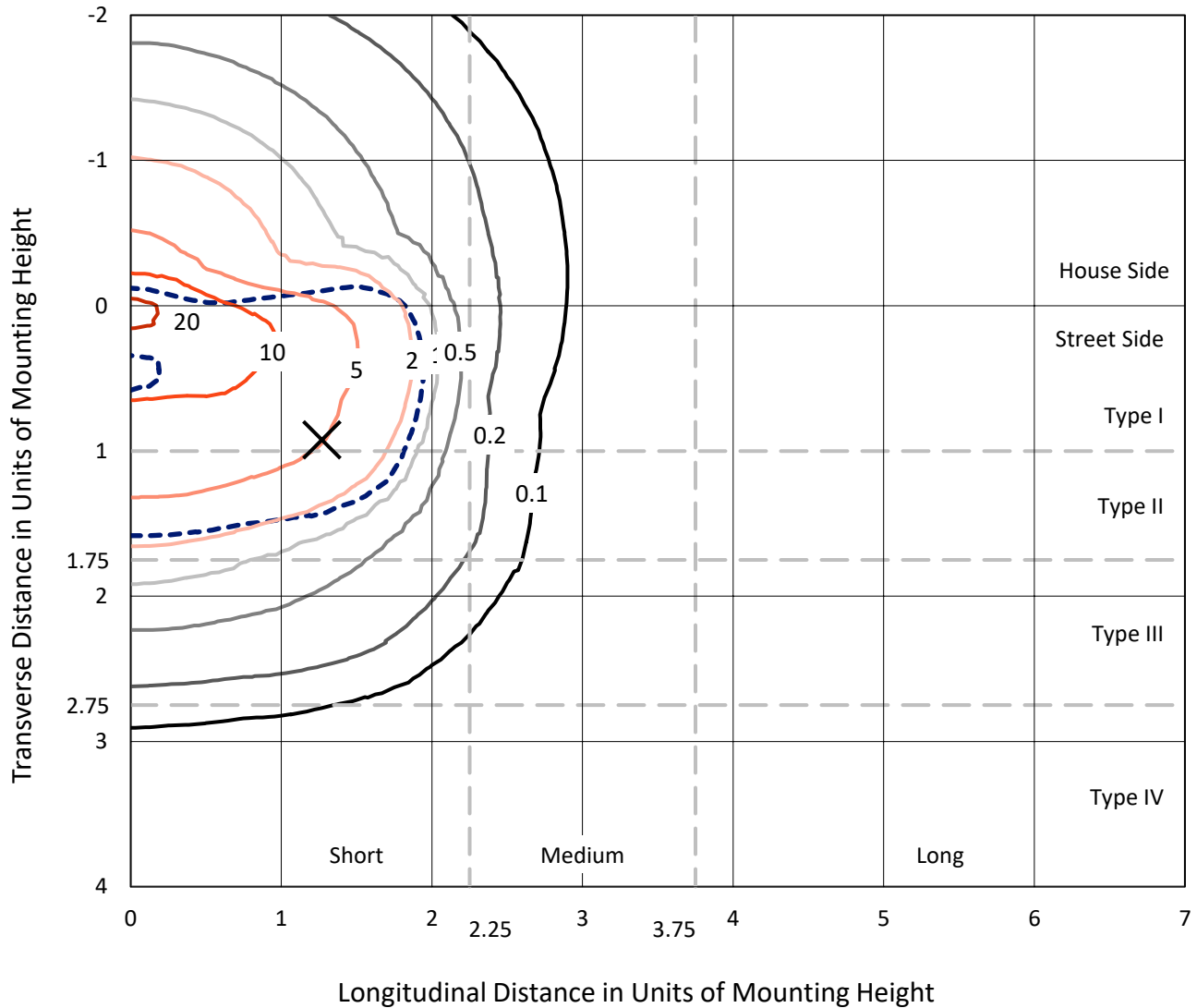
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

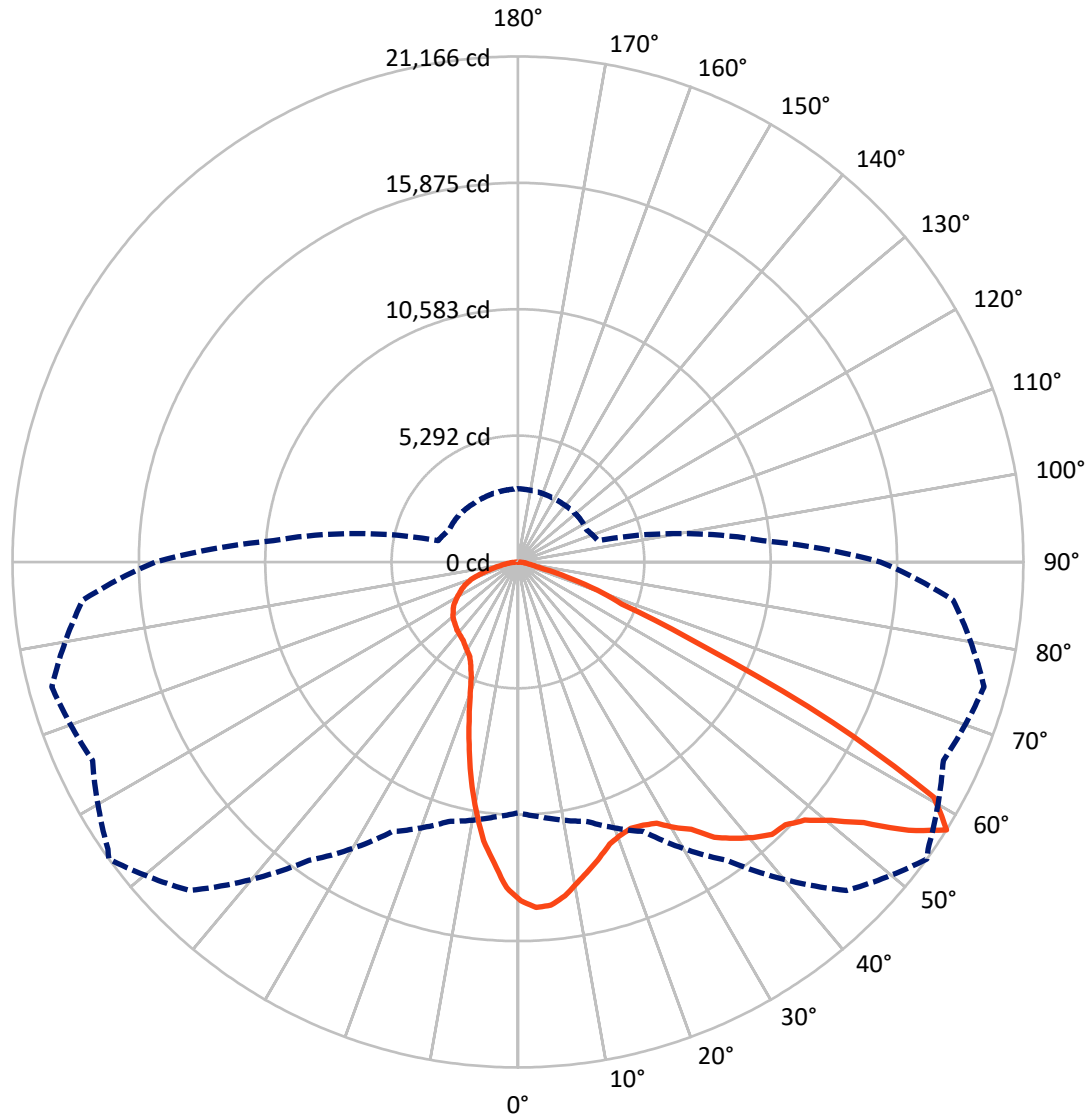
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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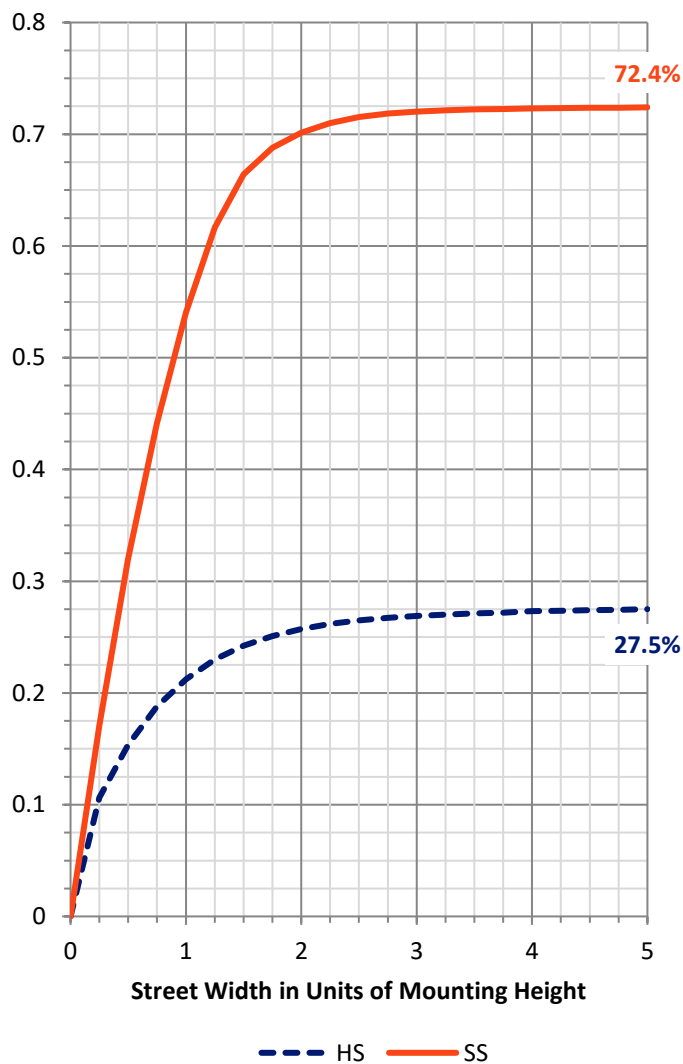
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10097.1	0.0	10097.1
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	26399.9	0.0	26399.9
	% Fixture	72.3	0.0	72.3
Total	Lumens	36497.0	0.0	36497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1223.4	3.4
10°-20°	2832.6	7.8
20°-30°	3979.9	10.9
30°-40°	5563.9	15.2
40°-50°	7532.4	20.6
50°-60°	9174.8	25.1
60°-70°	4778.7	13.1
70°-80°	1224.5	3.4
80°-90°	186.8	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°	36497.0	100.0
0°-180°	36497.0	100.0

Coefficient of Utilization



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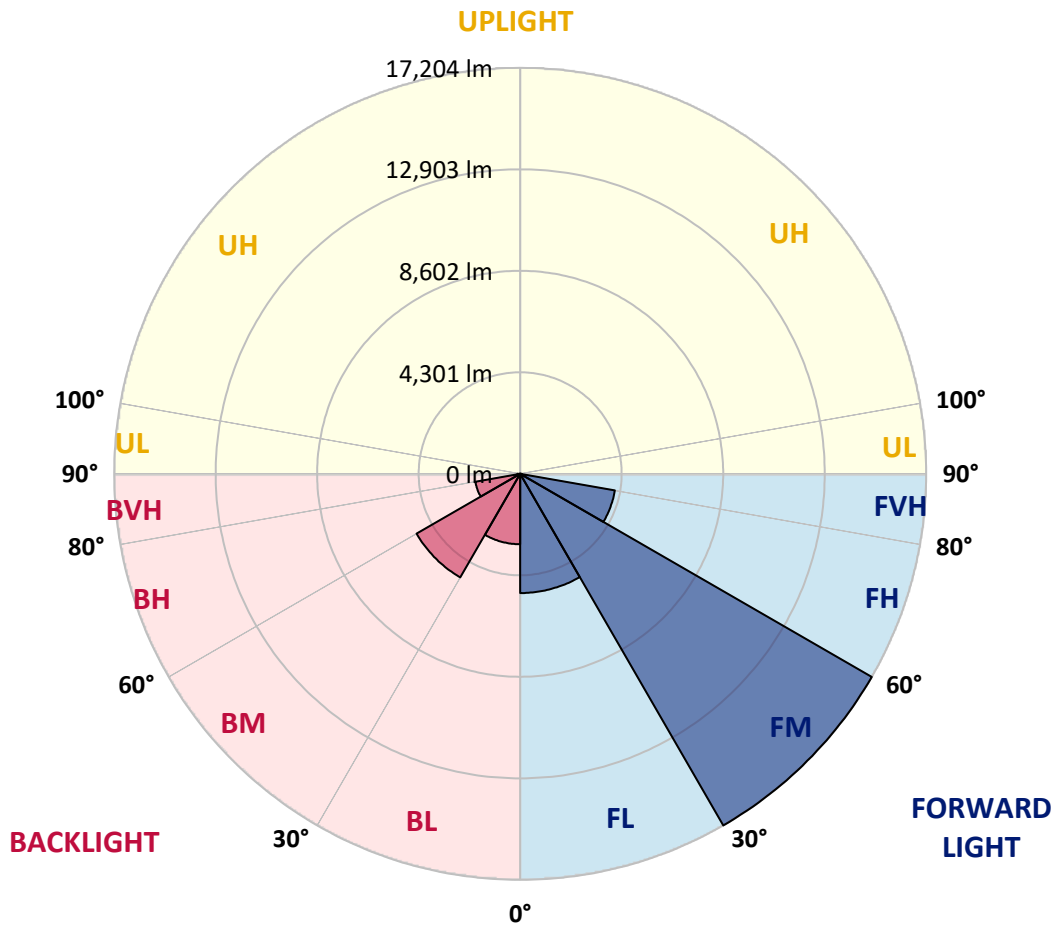
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5051.7	13.8			
FM (30°-60°)	17203.6	47.1			
FH (60°-80°)	4074.1	11.2			G2/5000
FVH (80°-90°)	70.6	0.2			G1/100
BL (0°-30°)	2984.2	8.2	B4/5000		
BM (30°-60°)	5067.6	13.9	B4/8500		
BH (60°-80°)	1929.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	116.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	14186.0	14186.0	14186.0	14186.0	14186.0	14186.0	14186.0	14186.0	14186.0	14186.0	14186.0
2.5°	14589.4	14533.1	14542.5	14617.5	14523.7	14486.2	14486.2	14303.2	14317.3	14190.7	14157.8
5°	14251.6	14120.3	14209.4	14322.0	14340.8	14378.3	14439.3	14392.4	14261.0	14125.0	13904.5
7.5°	13369.7	13487.0	13519.8	13599.6	13768.5	13923.3	14115.6	13984.2	13979.6	13843.5	13712.2
10°	12595.7	12525.3	12703.6	12820.8	13102.3	13360.3	13655.9	13641.8	13712.2	13557.4	13332.2
12.5°	11826.3	11770.0	11854.5	12121.9	12515.9	12891.2	13243.0	13111.7	13487.0	13458.8	12975.7
15°	11010.1	11052.3	11174.3	11422.9	11938.9	12389.3	12834.9	12839.6	13172.7	13285.3	12637.9
17.5°	10437.8	10390.8	10545.7	10916.3	11376.0	11915.5	12422.1	12525.3	13036.6	13102.3	12534.7
20°	10010.9	10076.5	10278.3	10465.9	10996.0	11648.1	12220.4	12257.9	13008.5	13186.8	12370.5
22.5°	9907.7	9870.1	9935.8	10240.7	10677.0	11385.4	12112.5	12253.2	13003.8	13158.6	12060.9
25°	9799.8	9921.7	9917.0	10222.0	10541.0	11174.3	12201.6	12356.4	13252.4	13304.0	12103.1
27.5°	10043.7	10029.6	10161.0	10184.4	10578.5	11230.6	12389.3	12506.5	13665.3	13623.0	12135.9
30°	10287.6	10217.3	10297.0	10573.8	10756.8	11554.2	12905.3	12895.9	14200.0	14171.9	12239.1
32.5°	10587.9	10555.0	10606.6	10850.6	11160.2	11985.8	13341.6	13618.3	14744.2	14922.5	12595.7
35°	10644.2	10780.2	10902.2	11230.6	11671.5	12684.8	14162.5	14392.4	15372.8	15931.1	13275.9
37.5°	11000.7	11052.3	11338.5	11920.2	12323.6	13618.3	14683.2	14828.7	15945.1	16578.4	13993.6
40°	11380.7	11441.7	11873.2	12483.1	13036.6	14228.2	15171.1	15218.0	16128.1	17075.7	14462.7
42.5°	11896.7	11953.0	12379.9	13144.5	13885.7	14748.9	15602.7	15654.3	16114.0	17648.0	15208.6
45°	12431.5	12567.5	13069.5	13937.3	14603.5	15358.7	15701.2	15912.3	16245.4	18159.3	15813.8
47.5°	13182.1	13308.7	13721.5	14570.6	15349.4	15893.5	16156.2	16362.6	16559.7	18605.0	16203.2
50°	13979.6	14003.0	14505.0	15274.3	15846.6	16498.7	17005.3	17075.7	16972.5	19121.0	16864.6
52.5°	14565.9	14641.0	15030.4	15780.9	16634.7	17436.9	18131.2	18206.3	18004.5	19313.4	17089.8
55°	13594.9	13552.7	14186.0	15185.2	17164.8	18834.9	19843.5	19899.8	18755.1	19909.1	17826.3
57.5°	10508.1	10709.8	11249.3	12454.9	15250.9	19454.1	21166.4	20964.6	19655.8	20209.4	18295.4
60°	7637.2	7590.2	7951.5	8758.3	11493.3	16766.1	20012.3	20218.8	18919.3	18215.6	15086.7
62.5°	6220.4	6154.8	6182.9	6211.1	7416.7	11127.4	14814.6	14809.9	14570.6	13092.9	10175.1
65°	4972.6	5127.4	5141.5	5352.6	5507.4	6647.3	8584.8	9044.5	7876.4	6459.7	4686.4
67.5°	3748.2	3691.9	3879.6	4630.1	4921.0	4799.0	4686.4	4738.0	3368.2	2430.0	2289.3
70°	2209.5	2186.1	2411.2	3227.5	4053.1	3813.9	3532.4	3537.1	2312.7	1698.2	1890.5
72.5°	1210.3	1205.6	1252.5	1637.2	2303.3	2392.5	2120.4	2186.1	1379.2	1374.5	1477.7
75°	675.5	661.4	647.4	722.4	830.3	877.2	896.0	905.4	947.6	1060.2	1102.4
77.5°	248.6	239.2	239.2	276.8	351.8	441.0	558.2	567.6	670.8	769.3	811.6
80°	84.4	93.8	126.7	173.6	234.6	314.3	380.0	389.4	473.8	539.5	553.6
82.5°	51.6	56.3	84.4	122.0	168.9	220.5	281.5	286.2	351.8	394.1	412.8
85°	23.5	28.1	46.9	75.1	107.9	145.4	150.1	150.1	145.4	150.1	140.7
87.5°	0.0	0.0	9.4	9.4	9.4	14.1	18.8	14.1	23.5	28.1	28.1
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°	14186.0	14186.0	14186.0	14186.0	14186.0	14186.0	14186.0	14186.0	14186.0	14186.0	14186.0
2.5°	14059.3	14007.7	13848.2	13707.5	13665.3	13477.6	13200.8	13233.7	13031.9	13125.8	13027.3
5°	13867.0	13693.4	13285.3	13111.7	12656.7	12450.2	12309.5	11957.7	11793.5	11760.7	11619.9
7.5°	13374.4	13266.5	12755.2	12286.1	11802.9	11390.1	10860.0	10498.7	10240.7	10170.4	9964.0
10°	12985.0	12745.8	12037.4	11324.4	10634.8	9917.0	9227.4	8688.0	8425.3	8120.3	8017.1
12.5°	12600.4	12239.1	11282.2	10367.4	9476.1	8570.7	7735.7	7078.9	6506.6	6370.5	6323.6
15°	12361.1	11732.5	10606.6	9504.2	8237.6	7055.5	6220.4	5788.8	5437.0	5291.6	5394.8
17.5°	12046.8	11315.0	9959.3	8490.9	7097.7	6009.3	5310.4	5043.0	4916.3	4930.4	4888.2
20°	11652.8	10920.9	9110.2	7571.5	6079.7	5211.8	4813.1	4714.6	4733.3	4766.2	4752.1
22.5°	11371.3	10442.4	8495.6	6633.3	5254.1	4770.9	4606.7	4536.3	4597.3	4625.5	4602.0
25°	11155.5	10034.3	7749.7	5802.9	4775.6	4522.2	4447.2	4442.5	4536.3	4573.8	4550.4
27.5°	10958.5	9654.3	7008.5	5169.6	4456.6	4329.9	4306.5	4362.7	4423.7	4461.3	4494.1
30°	10841.2	9363.5	6314.3	4639.5	4297.1	4236.1	4193.9	4245.5	4278.3	4315.8	4297.1
32.5°	10953.8	9157.1	5643.4	4339.3	4165.7	4104.7	4161.0	4128.2	4184.5	4217.3	4165.7
35°	11305.6	8974.1	5164.9	4179.8	4015.6	4039.1	4048.4	4034.4	4057.8	4029.7	4090.7
37.5°	11652.8	8908.4	4724.0	4043.8	3945.2	3945.2	3935.9	3907.7	3954.6	3945.2	3973.4
40°	12093.7	8950.7	4348.7	3898.3	3879.6	3870.2	3832.7	3828.0	3809.2	3813.9	3823.3
42.5°	12478.4	9044.5	4132.9	3804.5	3818.6	3837.3	3767.0	3710.7	3734.1	3687.2	3687.2
45°	12886.5	9128.9	3940.5	3738.8	3724.8	3720.1	3663.8	3630.9	3612.2	3616.9	3659.1
47.5°	13529.2	9250.9	3795.1	3649.7	3659.1	3588.7	3574.6	3532.4	3551.2	3579.3	3584.0
50°	13984.2	9508.9	3682.5	3546.5	3579.3	3532.4	3448.0	3429.2	3429.2	3476.1	3466.7
52.5°	14303.2	9870.1	3574.6	3433.9	3448.0	3410.4	3382.3	3340.1	3311.9	3377.6	3410.4
55°	15279.0	10470.6	3546.5	3340.1	3335.4	3297.9	3246.3	3204.0	3190.0	3199.3	3265.0
57.5°	15185.2	10282.9	3457.4	3175.9	3166.5	3114.9	3063.3	3049.2	3044.5	3053.9	3072.7
60°	12328.3	7594.9	3086.8	2988.2	2974.2	2964.8	2913.2	2856.9	2828.7	2856.9	2833.4
62.5°	8157.9	5085.2	2720.9	2763.1	2772.5	2749.0	2664.6	2608.3	2617.6	2650.5	2598.9
65°	4006.2	2988.2	2467.5	2580.1	2589.5	2523.8	2444.1	2378.4	2345.6	2373.7	2350.3
67.5°	2289.3	2284.6	2261.1	2378.4	2373.7	2308.0	2181.4	2125.1	2068.8	2078.2	2064.1
70°	1942.1	1979.7	2026.6	2096.9	2092.2	2017.2	1867.1	1824.8	1745.1	1735.7	1712.3
72.5°	1529.3	1595.0	1698.2	1749.8	1707.6	1613.7	1515.2	1444.9	1374.5	1332.3	1346.4
75°	1135.3	1229.1	1285.4	1318.2	1252.5	1200.9	1121.2	1036.7	952.3	914.8	900.7
77.5°	825.6	853.8	905.4	928.8	886.6	835.0	788.1	703.7	623.9	572.3	558.2
80°	577.0	595.8	633.3	633.3	633.3	609.8	548.9	464.4	412.8	365.9	356.5
82.5°	403.4	422.2	459.7	441.0	436.3	408.1	370.6	304.9	248.6	215.8	206.4
85°	140.7	154.8	187.6	225.2	239.2	234.6	211.1	168.9	131.4	107.9	98.5
87.5°	32.8	32.8	37.5	32.8	32.8	37.5	32.8	32.8	32.8	23.5	18.8
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)