

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: P530508

Luminaire Tested: **GALN-SA5D-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-727-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28283 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

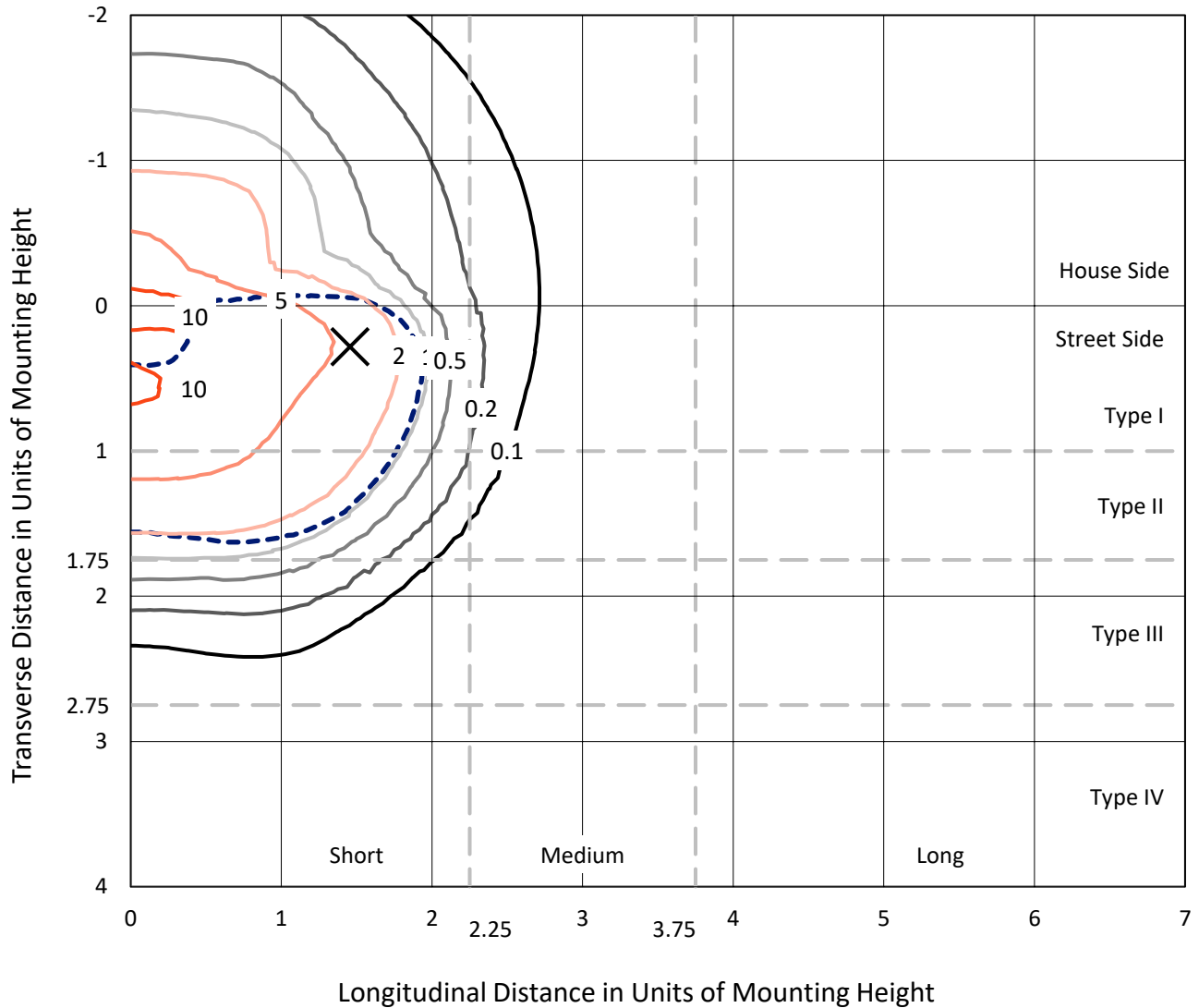
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

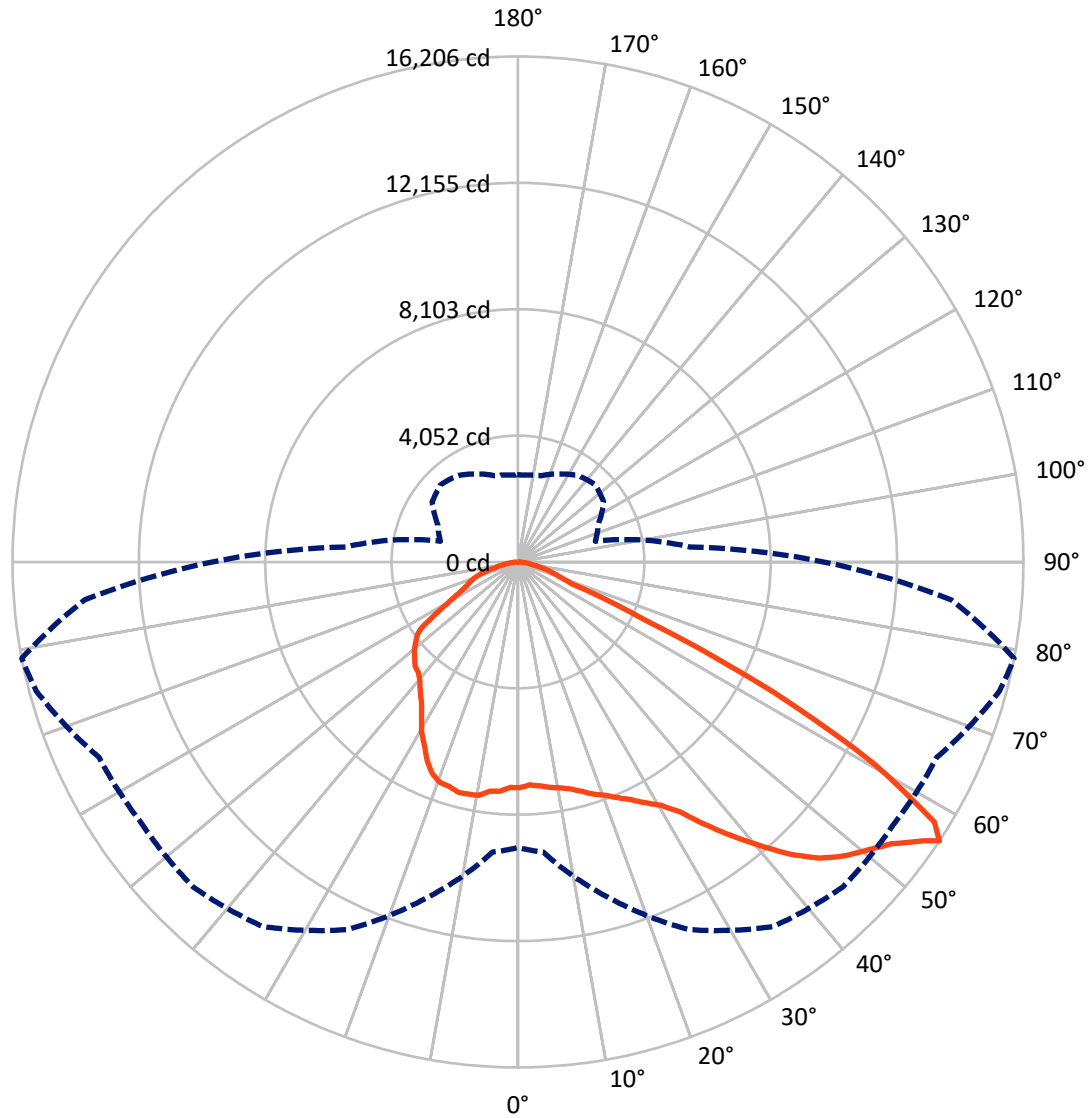
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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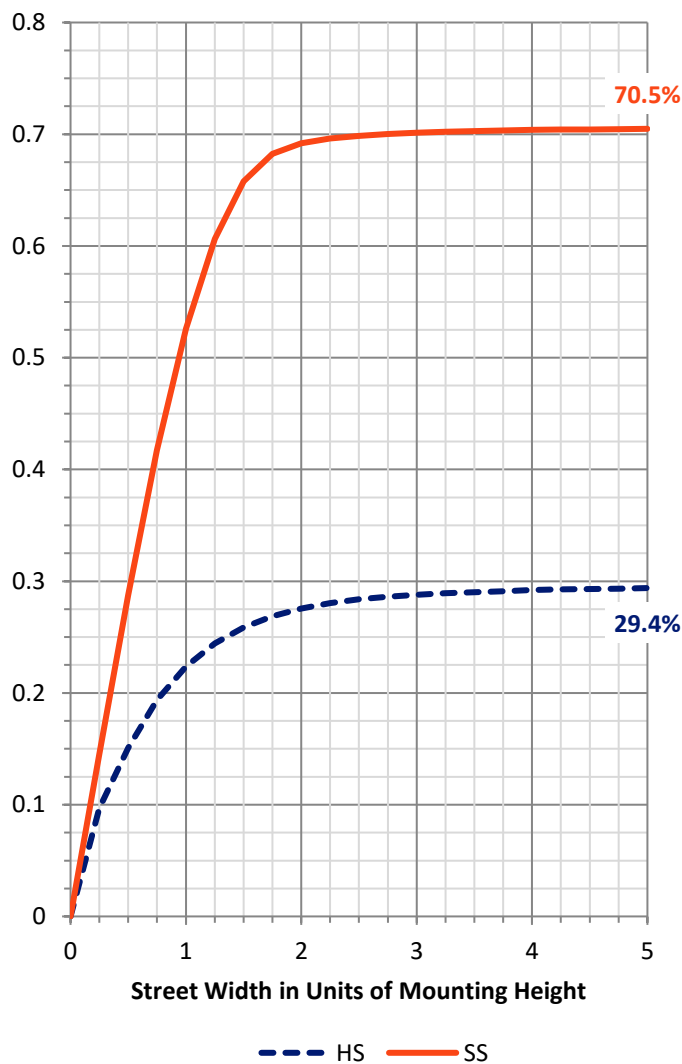
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8352.6	0.0	8352.6
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	19930.4	0.0	19930.4
	% Fixture	70.5	0.0	70.5
Total	Lumens	28283.0	0.0	28283.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.9	2.3
10°-20°	1800.6	6.4
20°-30°	3080.5	10.9
30°-40°	4721.2	16.7
40°-50°	6380.6	22.6
50°-60°	7328.4	25.9
60°-70°	3340.5	11.8
70°-80°	823.6	2.9
80°-90°	149.7	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°	28283.0	100.0
0°-180°	28283.0	100.0

Coefficient of Utilization

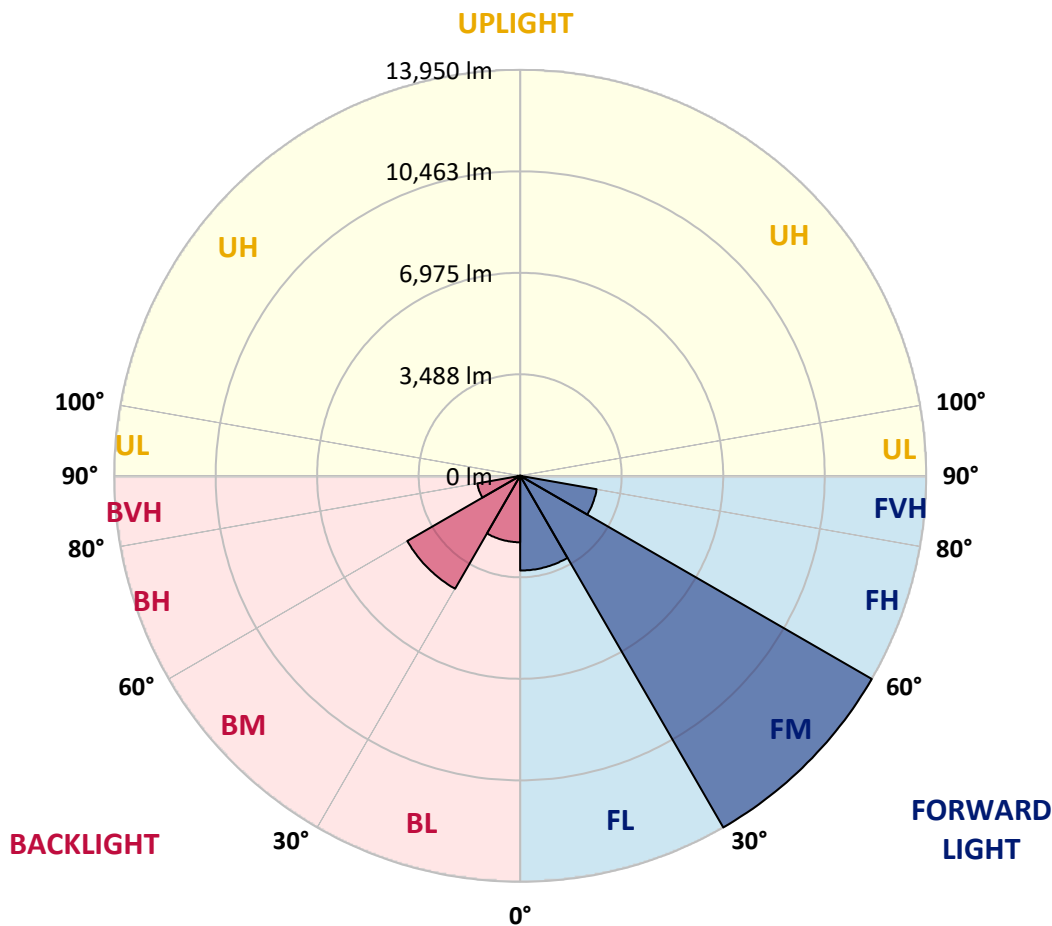


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3254.2	11.5			
FM (30°-60°)	13950.0	49.3			
FH (60°-80°)	2666.4	9.4			G2/5000
FVH (80°-90°)	59.8	0.2			G1/100
BL (0°-30°)	2284.8	8.1	B3/2500		
BM (30°-60°)	4480.2	15.8	B3/5000		
BH (60°-80°)	1497.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	89.9	0.3			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°	75°	79°	85°
0°	7236.5	7236.5	7236.5	7236.5	7236.5	7236.5	7236.5	7236.5	7236.5	7236.5	7236.5
2.5°	6884.2	6866.6	6908.8	6940.6	6979.3	7028.6	7053.3	7067.4	7190.7	7159.0	7254.1
5°	6736.2	6690.4	6722.1	6746.8	6813.7	6873.6	6940.6	7046.3	7159.0	7208.3	7324.6
7.5°	6605.9	6581.2	6574.2	6591.8	6683.4	6760.9	6877.1	7032.2	7215.4	7296.4	7363.3
10°	6390.9	6355.7	6408.6	6524.8	6549.5	6711.6	6845.4	7067.4	7225.9	7366.9	7564.2
12.5°	6295.8	6260.6	6271.2	6338.1	6510.7	6665.8	6824.3	7074.4	7409.1	7465.5	7729.7
15°	6447.3	6412.1	6422.7	6405.0	6570.6	6651.7	6901.8	7215.4	7536.0	7631.1	7912.9
17.5°	6792.6	6796.1	6750.3	6711.6	6672.8	6845.4	7018.1	7299.9	7585.3	7824.9	8036.2
20°	7451.4	7335.1	7243.5	7025.1	6965.2	7039.2	7257.6	7528.9	7786.1	7983.4	8223.0
22.5°	7958.7	7969.3	7839.0	7479.6	7349.2	7380.9	7567.7	7789.6	8071.5	8212.4	8487.2
25°	8695.1	8621.1	8480.2	8194.8	7902.4	7927.0	8064.4	8265.3	8342.8	8441.4	8740.9
27.5°	9368.0	9389.1	9110.8	8843.0	8480.2	8409.7	8656.3	8691.6	8561.2	8747.9	8850.1
30°	10051.5	10033.9	9850.7	9537.1	9181.3	9195.4	9304.6	9131.9	8952.3	9054.4	9124.9
32.5°	10759.6	10558.8	10551.8	10269.9	9998.6	9868.3	9734.4	9819.0	9540.6	9561.8	9494.8
35°	11326.8	11355.0	11193.0	10992.2	10858.3	10629.3	10262.9	10414.4	10361.5	10336.9	10048.0
37.5°	11739.1	11629.8	11710.9	11643.9	11517.1	11231.7	10851.2	10995.7	11020.3	11140.1	10805.4
40°	12077.3	12031.5	12246.4	12281.6	12193.5	11577.0	10893.5	11323.3	11693.3	11954.0	11555.9
42.5°	12239.3	12338.0	12563.5	12834.7	12637.5	11978.6	11111.9	11573.5	12397.9	12810.1	12267.5
45°	12457.8	12330.9	12665.6	13162.4	13165.9	12316.8	11323.3	11911.7	12947.5	13546.4	12753.7
47.5°	12235.8	12299.2	12644.5	13275.1	13437.2	12672.7	11894.1	12390.8	13553.5	14085.5	13204.7
50°	11739.1	11865.9	12496.5	13151.8	13641.5	13049.7	12549.4	12908.7	14113.6	14518.8	13278.7
52.5°	11221.2	11291.6	12278.1	13247.0	13733.1	13535.8	13426.6	13623.9	14797.1	15008.5	13370.3
55°	9811.9	10146.6	11555.9	13204.7	14180.6	14413.1	14328.6	14617.4	15572.2	15783.6	13870.5
56°	9160.1	9336.3	11122.5	13007.4	14268.7	14733.7	14691.4	14821.8	15984.4	16206.4	13948.1
57.5°	7955.2	7969.3	9484.3	12133.6	13937.5	14828.8	14786.6	14888.7	15903.4	15751.9	13268.1
60°	4978.2	5196.6	6454.4	9332.8	11851.8	13757.8	13997.4	13176.5	13409.0	13088.4	10322.8
62.5°	2578.9	2547.2	3382.2	5457.3	7867.1	9850.7	10072.6	10033.9	9674.5	9205.9	6743.3
65°	1285.9	1293.0	1768.6	2702.2	4030.5	5157.9	5777.9	5844.9	4890.1	4499.0	3199.0
67.5°	933.6	968.9	1271.8	1652.3	1899.0	2124.4	2603.6	2554.3	1934.2	1839.1	1705.2
70°	725.8	757.5	1032.3	1261.3	1145.0	1145.0	1247.2	1289.5	1377.5	1416.3	1462.1
72.5°	528.5	553.1	789.2	870.2	750.4	806.8	933.6	1032.3	1123.9	1138.0	1190.8
75°	362.9	384.0	517.9	479.1	451.0	556.7	683.5	775.1	842.0	877.3	909.0
77.5°	236.0	243.1	295.9	250.1	288.9	359.4	443.9	521.4	588.4	616.5	623.6
80°	105.7	116.3	126.8	158.5	200.8	257.2	317.1	380.5	422.8	433.3	454.5
82.5°	59.9	59.9	77.5	112.7	148.0	186.7	229.0	274.8	324.1	334.7	331.2
85°	31.7	31.7	45.8	66.9	91.6	109.2	105.7	109.2	116.3	133.9	130.4
87.5°	10.6	10.6	14.1	14.1	17.6	21.1	17.6	24.7	31.7	31.7	31.7
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°	7236.5	7236.5	7236.5	7236.5	7236.5	7236.5	7236.5	7236.5	7236.5	7236.5	7236.5
2.5°	7225.9	7257.6	7215.4	7307.0	7307.0	7289.3	7201.3	7229.5	7250.6	7250.6	7268.2
5°	7363.3	7352.8	7380.9	7271.7	7204.8	7180.1	7035.7	6965.2	6905.3	6901.8	6849.0
7.5°	7440.8	7412.7	7402.1	7321.1	7025.1	6845.4	6535.4	6355.7	6317.0	6179.6	6232.4
10°	7564.2	7617.0	7564.2	7123.8	6711.6	6299.3	5996.4	5718.0	5608.8	5520.7	5467.9
12.5°	7817.8	7793.2	7486.6	6891.2	6313.4	5823.7	5372.8	5080.3	4971.1	4893.6	4886.6
15°	8032.7	7909.4	7440.8	6524.8	5693.4	5171.9	4802.0	4594.2	4544.8	4551.9	4583.6
17.5°	8106.7	8022.2	7201.3	6144.3	5231.8	4618.8	4446.2	4414.5	4460.3	4513.1	4527.2
20°	8223.0	8089.1	7102.6	5626.4	4661.1	4273.6	4263.0	4375.7	4460.3	4537.8	4548.4
22.5°	8466.1	8127.9	6782.0	5136.7	4270.0	4171.4	4273.6	4368.7	4499.0	4562.4	4506.1
25°	8536.5	8043.3	6331.1	4548.4	4023.4	4108.0	4217.2	4347.5	4439.1	4474.4	4499.0
27.5°	8596.4	7912.9	5721.6	4157.3	3945.9	4104.4	4217.2	4326.4	4375.7	4407.4	4435.6
30°	8765.5	7874.2	5193.1	3896.6	3896.6	4034.0	4178.4	4206.6	4273.6	4312.3	4361.6
32.5°	8850.1	7606.4	4650.5	3731.0	3847.3	4069.2	4079.8	4132.6	4136.1	4167.9	4115.0
35°	9072.0	7416.2	4146.7	3611.2	3868.4	4034.0	4086.8	4055.1	3882.5	3797.9	3815.5
37.5°	9234.1	7321.1	3783.8	3597.1	3871.9	4072.7	4100.9	3861.3	3681.7	3540.7	3576.0
40°	9671.0	7085.0	3509.0	3572.4	3903.6	4115.0	4037.5	3776.8	3452.7	3308.2	3283.6
42.5°	10005.7	6915.9	3336.4	3544.3	3928.3	4174.9	4005.8	3607.7	3276.5	3142.6	3177.9
45°	10393.2	6877.1	3244.8	3551.3	3970.6	4206.6	3967.0	3477.3	3125.0	3072.2	3061.6
47.5°	10530.6	6598.8	3146.2	3491.4	3960.0	4196.0	3836.7	3378.7	3068.6	3075.7	3103.9
50°	10301.6	6313.4	3072.2	3368.1	3889.5	4100.9	3632.3	3248.3	3036.9	3125.0	3174.3
52.5°	10009.2	6021.0	2920.7	3202.5	3745.1	3952.9	3537.2	3241.3	3005.2	2977.0	2987.6
55°	10097.3	5781.4	2709.3	2977.0	3512.6	3678.1	3431.5	3174.3	2927.7	2822.0	2857.3
56°	9811.9	5534.8	2571.9	2836.1	3354.0	3502.0	3378.7	3114.4	2864.3	2793.8	2793.8
57.5°	9005.1	4706.9	2392.2	2610.6	3019.3	3195.5	3276.5	3079.2	2793.8	2670.5	2674.1
60°	6641.1	3347.0	2145.6	2300.6	2501.4	2642.3	3019.3	2980.6	2617.7	2533.1	2501.4
62.5°	4093.9	2445.0	1969.4	2029.3	2131.5	2247.8	2635.3	2698.7	2431.0	2339.4	2318.2
65°	2293.6	1870.8	1835.5	1860.2	1909.5	1969.4	2187.9	2328.8	2145.6	2004.7	1997.6
67.5°	1677.0	1673.5	1701.7	1722.8	1743.9	1743.9	1796.8	1853.2	1828.5	1715.8	1705.2
70°	1490.3	1500.9	1522.0	1525.5	1532.6	1507.9	1465.6	1448.0	1476.2	1405.7	1391.6
72.5°	1229.6	1264.8	1289.5	1293.0	1254.2	1222.5	1166.2	1106.3	1085.1	1071.0	1067.5
75°	944.2	968.9	979.4	975.9	961.8	916.0	849.1	789.2	750.4	708.1	729.3
77.5°	637.7	672.9	690.5	690.5	669.4	598.9	567.2	521.4	482.7	436.9	443.9
80°	447.4	472.1	500.3	496.8	461.5	426.3	380.5	338.2	306.5	271.3	267.8
82.5°	334.7	348.8	362.9	355.8	331.2	295.9	264.2	225.5	190.2	165.6	165.6
85°	119.8	130.4	158.5	165.6	179.7	179.7	151.5	126.8	102.2	84.6	84.6
87.5°	35.2	35.2	38.8	38.8	35.2	38.8	31.7	35.2	38.8	24.7	24.7
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)