

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: P458827

Luminaire Tested: **GALN-SA3C-735-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20007 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

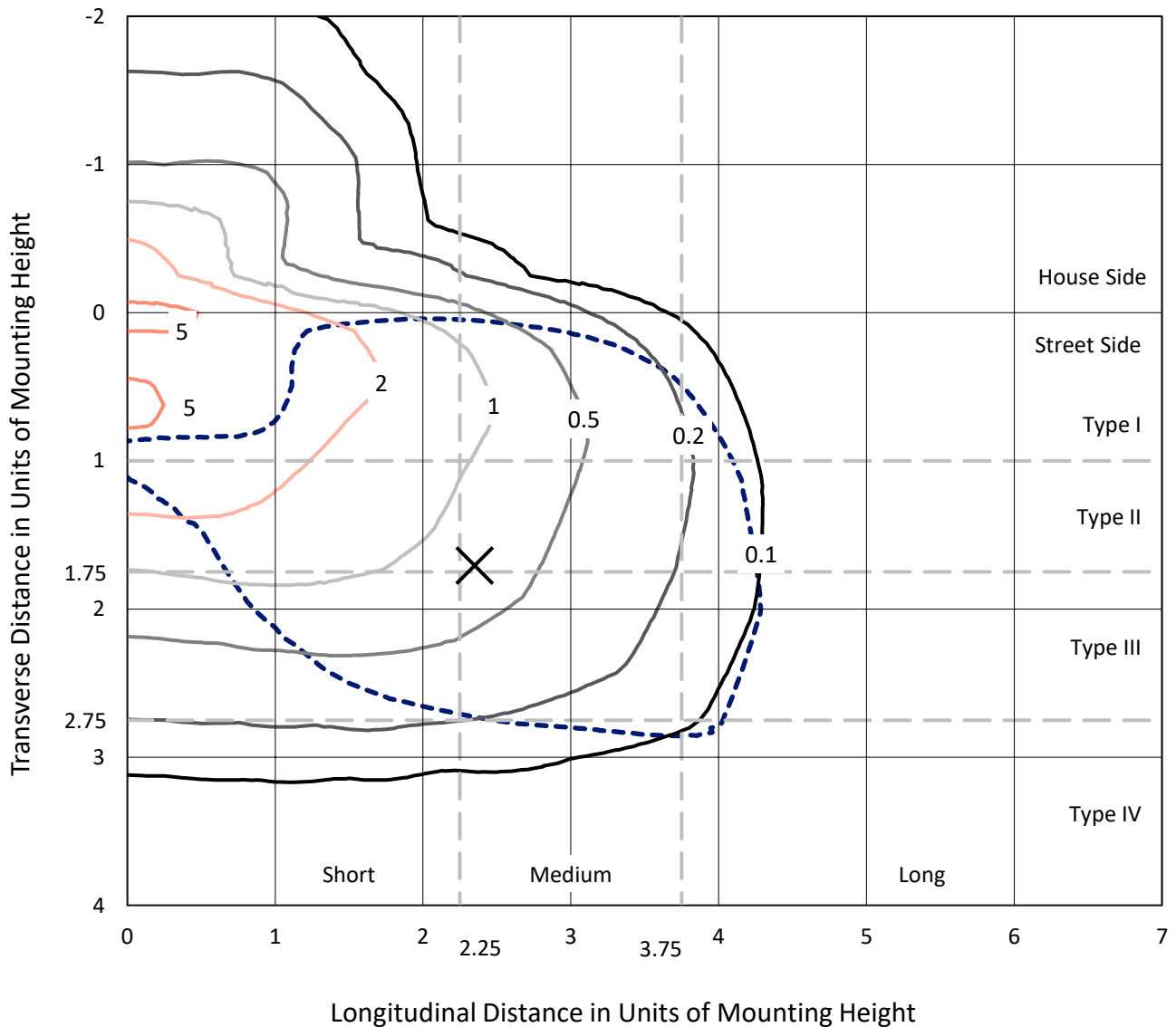
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

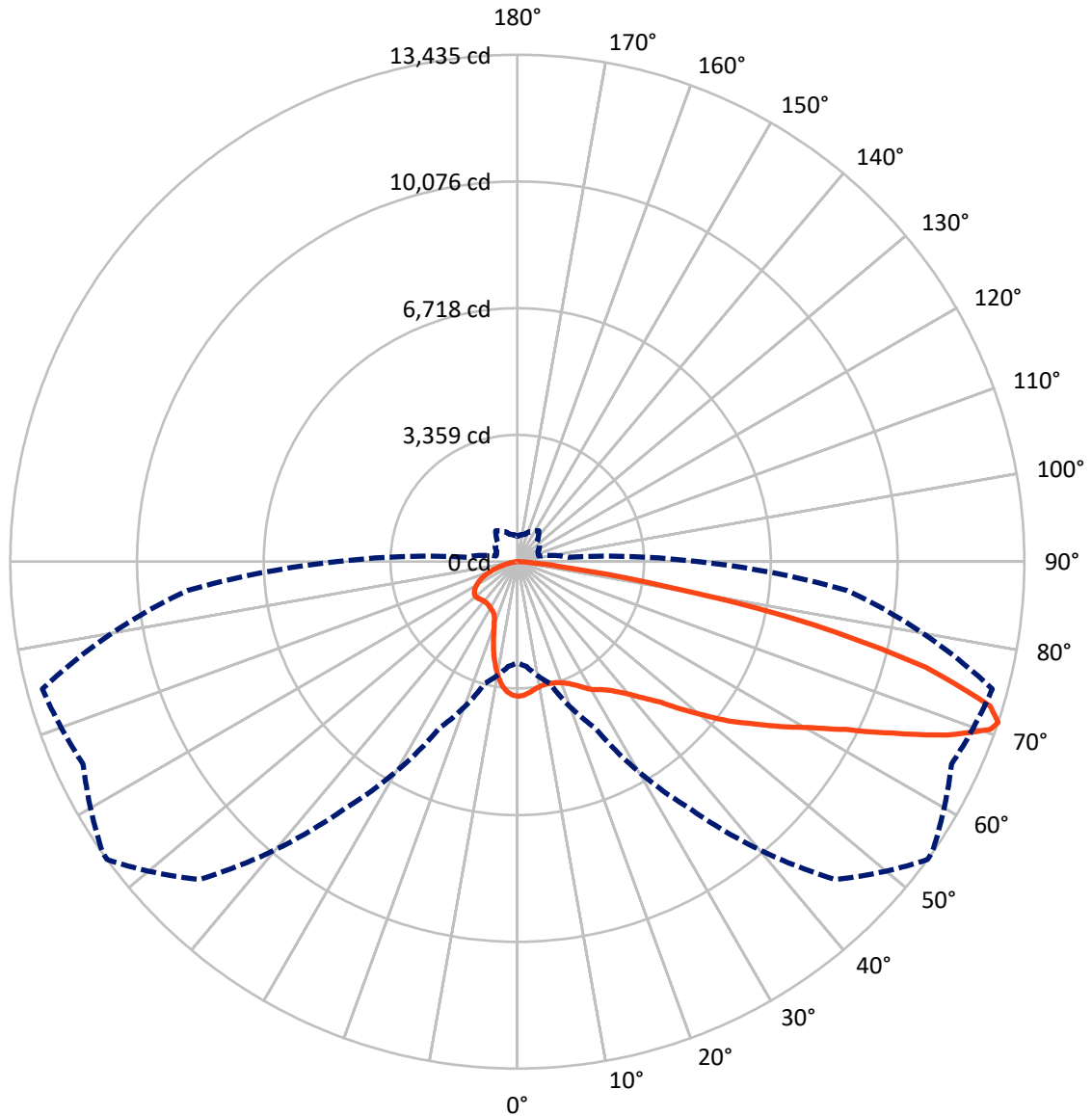
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3612.1	0.0	3612.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	16394.9	0.0	16394.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	20007.0	0.0	20007.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.1	1.6
10°-20°	839.9	4.2
20°-30°	1398.5	7.0
30°-40°	2068.0	10.3
40°-50°	2912.8	14.6
50°-60°	3900.4	19.5
60°-70°	4916.2	24.6
70°-80°	3357.7	16.8
80°-90°	295.3	1.5
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°	20007.0	100.0
0°-180°	20007.0	100.0

Coefficient of Utilization



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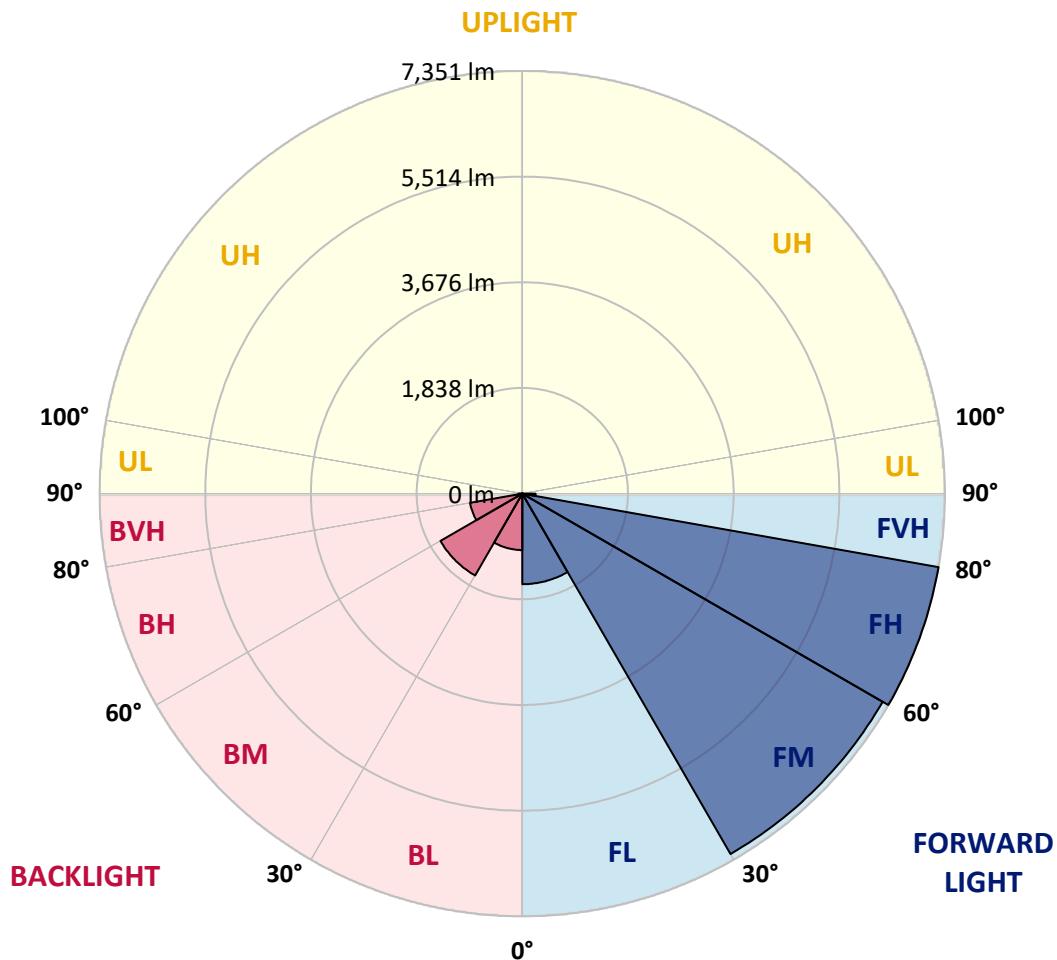
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1574.9	7.9			
FM (30°-60°)	7237.8	36.2			
FH (60°-80°)	7351.4	36.7			G3/7500
FVH (80°-90°)	230.8	1.2			G3/500
BL (0°-30°)	981.7	4.9	B2/1000		
BM (30°-60°)	1643.4	8.2	B2/2500		
BH (60°-80°)	922.5	4.6	B2/1000		G2/1000
BVH (80°-90°)	64.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3569.5	3569.5	3569.5	3569.5	3569.5	3569.5	3569.5	3569.5	3569.5	3569.5	3569.5
2.5°	3448.5	3464.7	3469.0	3479.8	3502.5	3520.9	3539.3	3537.1	3563.1	3573.9	3583.6
5°	3295.0	3299.4	3315.6	3337.2	3377.2	3428.0	3477.7	3478.8	3542.5	3593.3	3618.2
7.5°	3182.7	3196.7	3207.5	3230.2	3272.4	3327.5	3406.4	3412.8	3526.3	3626.8	3679.8
10°	3109.2	3125.4	3137.3	3165.4	3207.5	3269.1	3354.5	3366.4	3514.4	3679.8	3772.7
12.5°	3042.2	3058.4	3069.2	3105.9	3161.0	3236.7	3332.9	3346.9	3518.8	3741.4	3874.3
15°	3083.2	3096.2	3091.9	3102.7	3139.4	3225.9	3341.5	3355.6	3535.0	3800.8	3974.8
17.5°	3265.9	3276.7	3241.0	3199.9	3182.7	3246.4	3368.5	3383.7	3567.4	3862.4	4077.5
20°	3535.0	3564.1	3486.3	3394.5	3311.3	3319.9	3424.7	3440.9	3612.8	3924.0	4182.3
22.5°	3885.1	3906.7	3811.6	3660.3	3506.9	3428.0	3509.0	3518.8	3680.9	4004.0	4296.9
25°	4296.9	4309.8	4178.0	3983.5	3761.9	3612.8	3624.7	3642.0	3793.2	4094.8	4398.4
27.5°	4696.7	4737.8	4585.4	4347.6	4055.9	3807.3	3783.5	3794.3	3915.4	4145.6	4468.7
30°	5171.1	5167.9	5006.9	4731.3	4357.4	4019.1	3933.7	3931.6	3981.3	4170.4	4519.5
32.5°	5549.4	5593.7	5435.9	5135.5	4702.1	4238.5	4037.5	4033.2	4032.1	4213.6	4595.1
35°	5979.5	5986.0	5841.2	5538.6	5075.0	4514.1	4182.3	4160.7	4135.8	4306.6	4697.8
37.5°	6364.2	6394.5	6261.6	5922.2	5441.3	4800.5	4381.1	4367.1	4291.5	4467.6	4862.1
40°	6664.7	6687.4	6607.4	6284.3	5802.3	5109.5	4634.0	4608.1	4516.2	4731.3	5081.4
42.5°	6763.0	6809.5	6840.8	6682.0	6217.3	5475.9	4945.3	4912.9	4842.6	5131.2	5334.3
45°	6770.6	6844.1	7009.4	7017.0	6634.4	5914.7	5308.4	5285.7	5280.3	5643.4	5689.9
47.5°	6713.3	6787.9	7065.6	7215.8	7006.2	6357.7	5832.5	5796.9	5800.1	6276.7	6088.7
50°	6575.0	6663.6	7000.8	7343.3	7296.9	6818.1	6385.8	6374.0	6441.0	6999.7	6502.6
52.5°	6314.5	6421.5	6933.8	7423.3	7513.0	7214.7	7014.8	6981.3	7151.0	7784.3	6955.4
55°	5593.7	5754.7	6688.4	7467.6	7718.3	7594.1	7581.1	7641.6	7866.4	8640.2	7453.6
57.5°	5217.6	5338.6	6155.7	7475.2	7977.7	8035.0	8242.5	8257.6	8651.0	9549.0	8016.6
60°	5012.3	5119.3	5863.9	7425.5	8339.7	8580.7	8919.0	8973.0	9417.2	10533.6	8600.2
62.5°	4832.9	4924.7	5688.8	7253.6	8748.2	9390.2	9795.4	9821.4	10287.2	11620.7	9176.2
65°	4410.3	4515.2	5336.5	7081.8	9100.6	10401.7	10958.3	10928.0	11213.3	12558.8	9537.2
67.5°	3840.8	3973.7	4678.3	6488.5	9274.5	11507.3	12268.1	12230.3	12127.6	13173.7	9640.9
70°	3113.5	3184.8	3836.5	5462.9	8579.7	12087.6	13302.3	13262.3	12693.9	13254.8	9150.3
71°	2679.1	2790.4	3340.4	4852.3	8001.5	11910.4	13435.2	13424.4	12695.0	13031.1	8780.7
72.5°	2091.2	2159.2	2645.5	3759.7	6800.8	10903.2	13106.7	13147.8	12419.4	12409.7	8018.8
75°	1322.8	1353.0	1660.0	2213.3	3731.6	7721.6	11188.5	11299.8	11027.4	10157.5	5963.3
77.5°	768.4	807.3	994.2	1304.4	1612.4	4190.9	8005.8	8126.8	7662.1	5592.6	2441.3
80°	447.4	490.6	654.9	757.6	740.3	1555.1	4076.4	4282.8	3317.7	1412.5	685.2
82.5°	248.6	277.7	460.4	461.5	394.5	507.9	1282.8	1342.2	946.7	569.5	279.9
85°	180.5	204.3	297.2	269.1	189.1	218.3	446.3	467.9	382.6	239.9	90.8
87.5°	63.8	90.8	163.2	129.7	51.9	45.4	128.6	104.8	97.3	67.0	20.5
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°	3569.5	3569.5	3569.5	3569.5	3569.5	3569.5	3569.5	3569.5	3569.5	3569.5	3569.5
2.5°	3589.0	3591.2	3580.4	3560.9	3541.4	3516.6	3488.5	3466.9	3457.2	3456.1	3455.0
5°	3627.9	3633.3	3592.2	3531.7	3464.7	3382.6	3312.3	3232.4	3211.8	3179.4	3189.1
7.5°	3690.6	3687.3	3606.3	3477.7	3321.0	3147.0	3000.0	2914.6	2826.0	2801.2	2802.2
10°	3780.3	3759.7	3606.3	3367.5	3105.9	2847.6	2642.3	2512.6	2442.4	2384.0	2362.4
12.5°	3875.4	3823.5	3571.7	3212.9	2829.3	2512.6	2292.2	2117.1	2071.7	2024.1	2025.2
15°	3966.2	3879.7	3503.6	2995.7	2531.0	2154.9	1940.9	1836.1	1822.1	1827.5	1826.4
17.5°	4048.3	3919.7	3399.9	2753.6	2183.0	1848.0	1734.5	1742.1	1779.9	1806.9	1810.2
20°	4131.5	3943.5	3245.3	2429.4	1854.5	1662.1	1666.4	1725.9	1783.2	1819.9	1825.3
22.5°	4210.4	3954.3	3063.8	2116.0	1616.7	1583.2	1647.0	1710.7	1766.9	1802.6	1808.0
25°	4262.3	3929.4	2806.6	1788.6	1500.0	1555.1	1622.1	1676.2	1723.7	1760.5	1769.1
27.5°	4276.3	3849.4	2487.8	1523.8	1446.0	1528.1	1589.7	1629.7	1666.4	1701.0	1707.5
30°	4268.8	3731.6	2137.6	1368.2	1414.6	1496.8	1544.3	1573.5	1617.8	1644.8	1650.2
32.5°	4256.9	3594.4	1772.3	1284.9	1388.7	1467.6	1495.7	1521.6	1520.5	1509.7	1517.3
35°	4261.2	3430.1	1476.2	1235.2	1366.0	1446.0	1469.7	1437.3	1344.4	1340.1	1335.7
37.5°	4283.9	3268.0	1261.2	1200.7	1354.1	1442.7	1455.7	1306.6	1224.4	1186.6	1176.9
40°	4342.2	3078.9	1119.6	1174.7	1353.0	1467.6	1391.9	1240.6	1082.9	1009.4	1004.0
42.5°	4420.1	2893.0	1033.1	1158.5	1366.0	1505.4	1366.0	1147.7	975.9	932.6	926.2
45°	4535.7	2680.1	985.6	1150.9	1385.5	1519.5	1357.4	1079.6	932.6	898.1	898.1
47.5°	4666.5	2477.0	959.7	1145.5	1410.3	1509.7	1280.6	1058.0	912.1	916.4	937.0
50°	4796.1	2300.8	940.2	1133.7	1431.9	1504.3	1249.3	1056.9	917.5	972.6	1009.4
52.5°	4946.4	2176.5	916.4	1114.2	1431.9	1469.7	1239.6	1078.5	932.6	948.9	965.1
55°	5127.9	2137.6	886.2	1072.1	1406.0	1383.3	1234.2	1109.9	943.4	905.6	912.1
57.5°	5367.8	2200.3	857.0	1019.1	1346.5	1293.6	1232.0	1118.5	918.6	887.3	880.8
60°	5646.6	2324.6	848.3	965.1	1265.5	1216.9	1219.0	1093.7	884.0	851.6	857.0
62.5°	5842.3	2399.1	842.9	924.0	1176.9	1132.6	1187.7	1063.4	868.9	840.8	846.2
65°	5842.3	2308.4	793.2	861.3	1062.3	1031.0	1149.9	1025.6	849.4	817.0	811.6
67.5°	5620.7	2043.6	717.6	767.3	935.9	915.4	1096.9	980.2	820.2	795.4	782.4
70°	5043.6	1549.7	622.5	657.1	775.9	794.3	1028.8	918.6	771.6	741.4	721.9
71°	4789.7	1349.8	582.5	600.9	714.3	741.4	996.4	892.7	750.0	706.8	672.2
72.5°	4300.1	1136.9	522.0	529.5	610.6	659.2	928.3	842.9	708.9	647.3	608.4
75°	3266.9	830.0	420.4	416.1	451.7	523.1	785.7	751.1	621.4	538.2	515.5
77.5°	1411.4	451.7	314.5	317.7	306.9	396.6	618.2	645.2	532.8	437.7	417.1
80°	428.0	260.4	215.1	219.4	205.3	265.9	435.5	505.8	428.0	340.4	312.3
82.5°	219.4	155.6	147.0	144.8	130.8	150.2	263.7	345.8	305.8	212.9	188.0
85°	95.1	83.2	72.4	70.2	61.6	54.0	94.0	172.9	162.1	118.9	113.5
87.5°	23.8	21.6	14.0	13.0	7.6	1.1	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)