

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: P458856

Luminaire Tested: **GALN-SA3D-735-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458856
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-SA3D-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22015 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

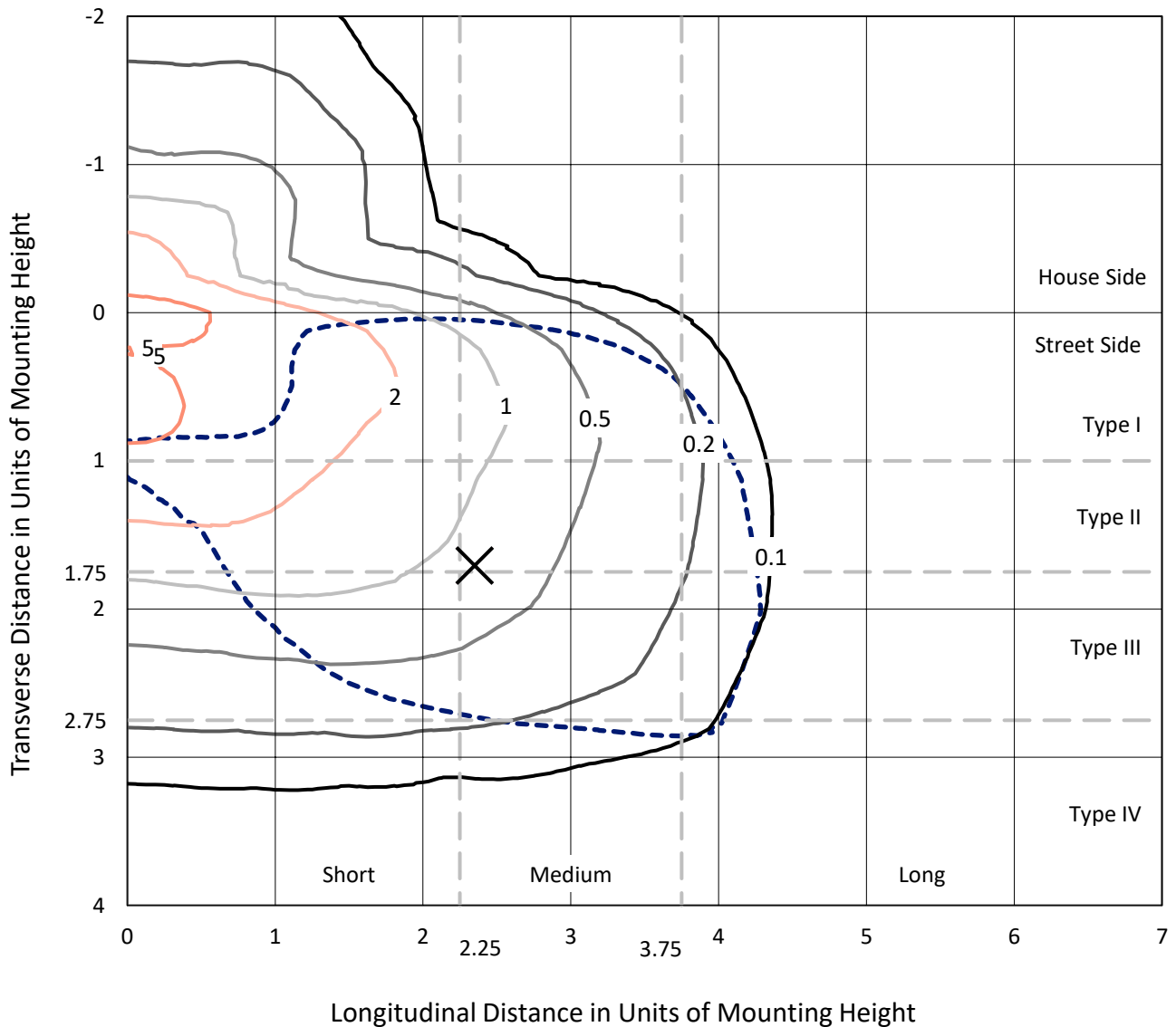
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

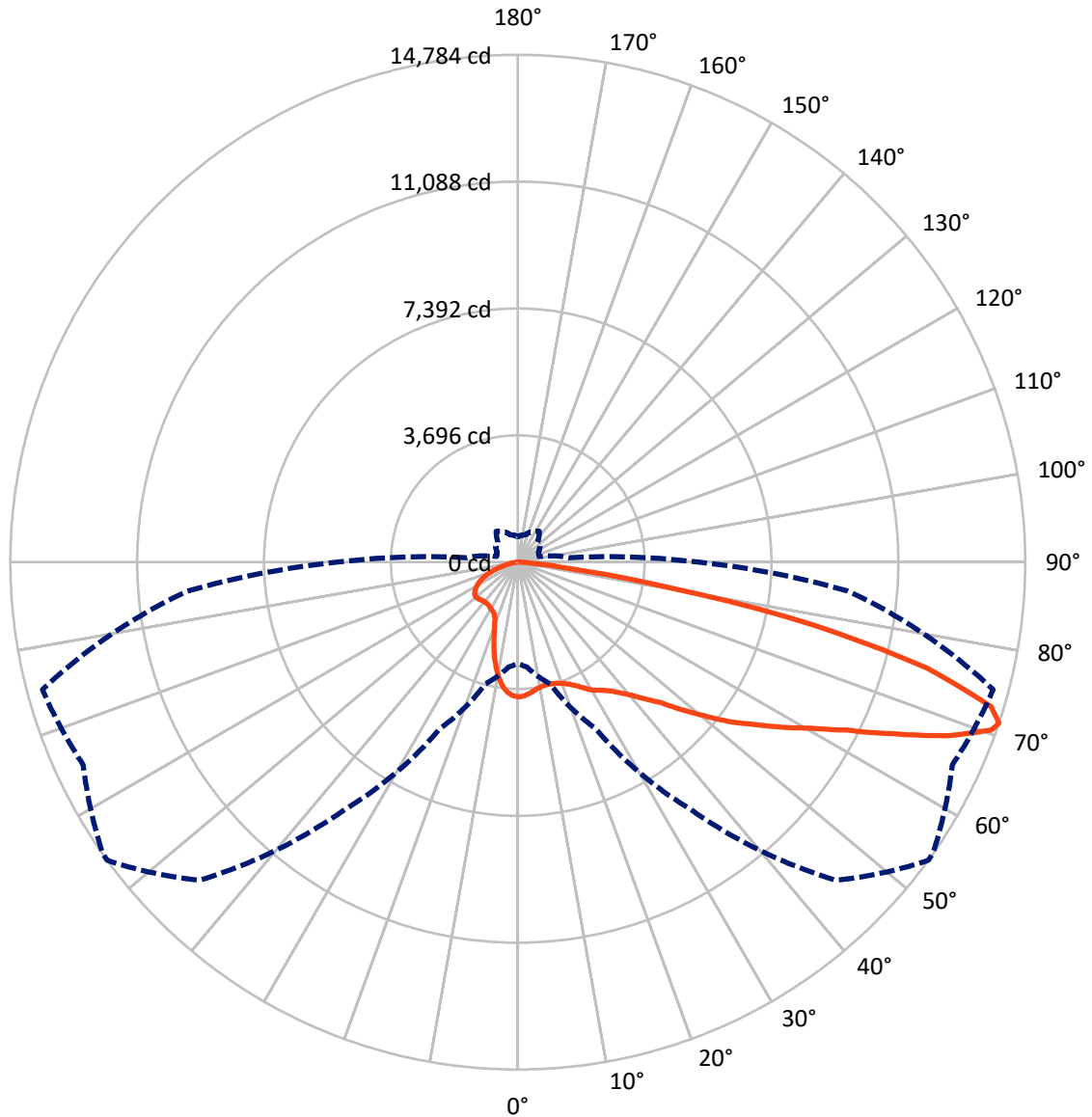
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	3974.7	0.0	3974.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	18040.3	0.0	18040.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	22015.0	0.0	22015.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.0	1.6
10°-20°	924.2	4.2
20°-30°	1538.9	7.0
30°-40°	2275.5	10.3
40°-50°	3205.2	14.6
50°-60°	4291.9	19.5
60°-70°	5409.6	24.6
70°-80°	3694.7	16.8
80°-90°	324.9	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°	22015.0	100.0
0°-180°	22015.0	100.0

Coefficient of Utilization



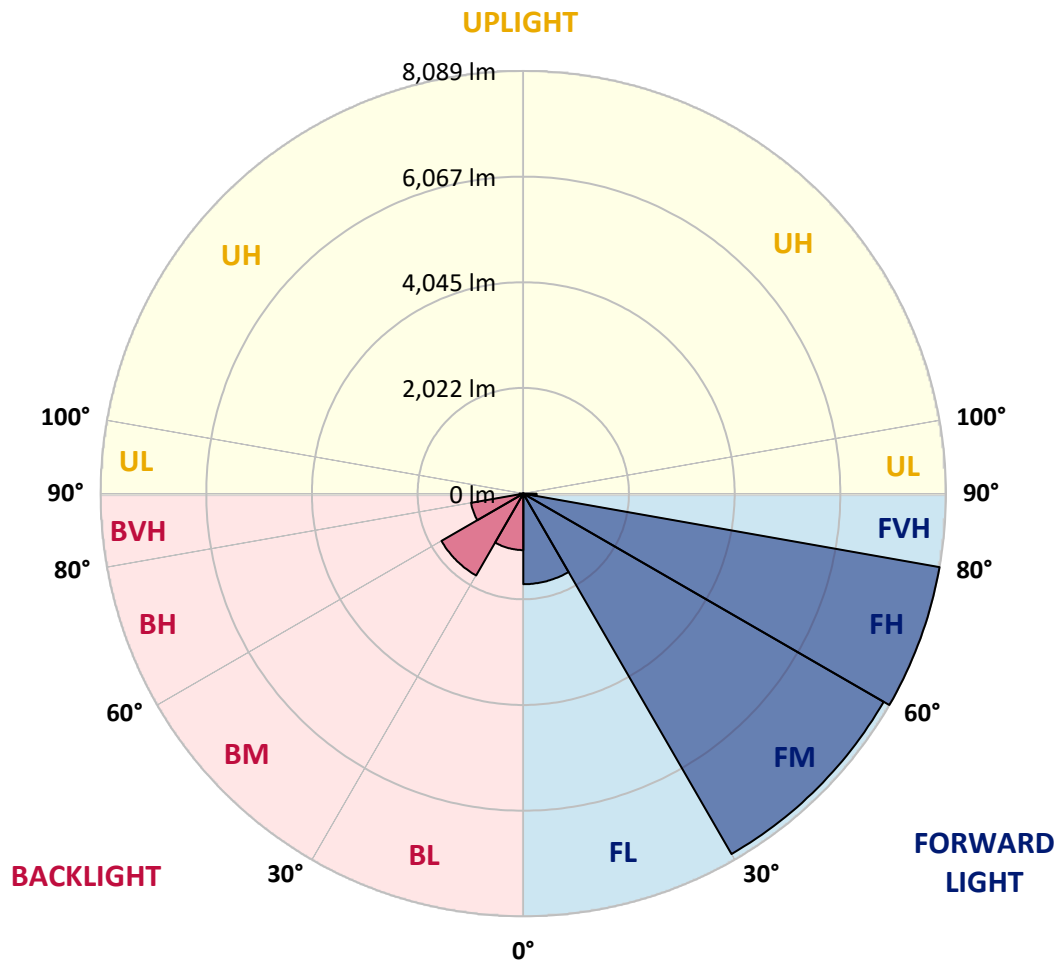
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1732.9	7.9			
FM	(30°-60°)	7964.2	36.2			
FH	(60°-80°)	8089.2	36.7			G4/12000
FVH	(80°-90°)	254.0	1.2			G3/500
BL	(0°-30°)	1080.2	4.9	B3/2500		
BM	(30°-60°)	1808.4	8.2	B2/2500		
BH	(60°-80°)	1015.1	4.6	B3/2500		G3/2500
BVH	(80°-90°)	70.9	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-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8
2.5°	3794.6	3812.5	3817.2	3829.1	3854.1	3874.3	3894.5	3892.1	3920.7	3932.6	3943.3
5°	3625.8	3630.5	3648.3	3672.1	3716.1	3772.0	3826.7	3827.9	3898.1	3954.0	3981.3
7.5°	3502.1	3517.5	3529.4	3554.4	3600.8	3661.4	3748.2	3755.4	3880.2	3990.8	4049.1
10°	3421.2	3439.1	3452.1	3483.1	3529.4	3597.2	3691.2	3704.2	3867.2	4049.1	4151.4
12.5°	3347.5	3365.3	3377.2	3417.7	3478.3	3561.5	3667.4	3682.8	3871.9	4116.9	4263.1
15°	3392.7	3406.9	3402.2	3414.1	3454.5	3549.6	3676.9	3692.3	3889.7	4182.3	4373.7
17.5°	3593.6	3605.5	3566.3	3521.1	3502.1	3572.2	3706.6	3723.3	3925.4	4250.1	4486.7
20°	3889.7	3921.9	3836.2	3735.2	3643.6	3653.1	3768.5	3786.3	3975.4	4317.8	4602.1
22.5°	4275.0	4298.8	4194.2	4027.7	3858.8	3772.0	3861.2	3871.9	4050.3	4405.8	4728.1
25°	4728.1	4742.4	4597.3	4383.3	4139.5	3975.4	3988.4	4007.5	4174.0	4505.7	4839.9
27.5°	5168.1	5213.3	5045.6	4784.0	4462.9	4189.4	4163.3	4175.1	4308.3	4561.6	4917.2
30°	5690.1	5686.6	5509.4	5206.2	4794.7	4422.5	4328.5	4326.2	4380.9	4589.0	4973.1
32.5°	6106.3	6155.1	5981.5	5650.9	5174.0	4663.9	4442.7	4438.0	4436.8	4636.5	5056.3
35°	6579.6	6586.8	6427.4	6094.5	5584.3	4967.1	4602.1	4578.3	4550.9	4738.8	5169.3
37.5°	7003.0	7036.3	6890.0	6516.6	5987.4	5282.3	4820.9	4805.4	4722.2	4916.0	5350.0
40°	7333.6	7358.5	7270.5	6915.0	6384.6	5622.4	5099.1	5070.6	4969.5	5206.2	5591.4
42.5°	7441.8	7492.9	7527.4	7352.6	6841.2	6025.5	5441.6	5405.9	5328.6	5646.1	5869.7
45°	7450.1	7531.0	7712.9	7721.2	7300.3	6508.3	5841.2	5816.2	5810.2	6209.8	6260.9
47.5°	7387.1	7469.1	7774.7	7940.0	7709.3	6995.8	6417.9	6378.7	6382.2	6906.7	6699.7
50°	7234.9	7332.4	7703.4	8080.4	8029.2	7502.4	7026.8	7013.7	7087.4	7702.2	7155.2
52.5°	6948.3	7066.0	7629.7	8168.4	8267.1	7938.8	7718.9	7682.0	7868.7	8565.5	7653.4
55°	6155.1	6332.3	7359.7	8217.1	8493.0	8356.2	8342.0	8408.6	8655.9	9507.3	8201.7
57.5°	5741.3	5874.5	6773.5	8225.4	8778.4	8841.4	9069.7	9086.4	9519.2	10507.4	8821.2
60°	5515.3	5633.1	6452.4	8170.7	9176.8	9441.9	9814.2	9873.6	10362.4	11590.8	9463.4
62.5°	5317.9	5419.0	6259.7	7981.7	9626.3	10332.6	10778.6	10807.1	11319.6	12787.1	10097.2
65°	4853.0	4968.3	5872.1	7792.6	10013.9	11445.7	12058.1	12024.8	12338.7	13819.3	10494.4
67.5°	4226.3	4372.5	5147.9	7139.7	10205.4	12662.2	13499.4	13457.7	13344.8	14495.9	10608.5
70°	3426.0	3504.5	4221.5	6011.2	9440.8	13300.8	14637.4	14593.4	13967.9	14585.1	10068.6
71°	2947.9	3070.4	3675.7	5339.3	8804.6	13105.8	14783.7	14771.8	13969.1	14338.9	9661.9
72.5°	2301.0	2375.9	2911.1	4137.1	7483.4	11997.5	14422.2	14467.3	13665.8	13655.1	8823.6
75°	1455.5	1488.8	1826.6	2435.4	4106.2	8496.6	12311.4	12433.9	12134.2	11176.9	6561.8
77.5°	845.5	888.3	1094.0	1435.3	1774.2	4611.6	8809.3	8942.5	8431.2	6153.9	2686.3
80°	492.3	539.9	720.6	833.6	814.6	1711.2	4485.5	4712.6	3650.7	1554.2	753.9
82.5°	273.5	305.6	506.6	507.8	434.0	558.9	1411.5	1476.9	1041.7	626.7	308.0
85°	198.6	224.8	327.0	296.1	208.1	240.2	491.1	514.9	421.0	264.0	99.9
87.5°	70.2	99.9	179.6	142.7	57.1	49.9	141.5	115.3	107.0	73.7	22.6
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°	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8
2.5°	3949.2	3951.6	3939.7	3918.3	3896.9	3869.5	3838.6	3814.8	3804.1	3802.9	3801.8
5°	3992.0	3998.0	3952.8	3886.2	3812.5	3722.1	3644.8	3556.8	3534.2	3498.5	3509.2
7.5°	4061.0	4057.4	3968.2	3826.7	3654.3	3462.8	3301.1	3207.2	3109.7	3082.3	3083.5
10°	4159.7	4137.1	3968.2	3705.4	3417.7	3133.4	2907.5	2764.8	2687.5	2623.3	2599.5
12.5°	4264.3	4207.3	3930.2	3535.4	3113.2	2764.8	2522.2	2329.6	2279.6	2227.3	2228.5
15°	4364.2	4269.1	3855.3	3296.4	2785.0	2371.2	2135.7	2020.4	2004.9	2010.9	2009.7
17.5°	4454.6	4313.1	3741.1	3030.0	2402.1	2033.5	1908.6	1916.9	1958.5	1988.3	1991.8
20°	4546.2	4339.3	3571.1	2673.2	2040.6	1828.9	1833.7	1899.1	1962.1	2002.5	2008.5
22.5°	4633.0	4351.1	3371.3	2328.4	1779.0	1742.1	1812.3	1882.4	1944.3	1983.5	1989.5
25°	4690.1	4323.8	3088.3	1968.1	1650.6	1711.2	1784.9	1844.4	1896.7	1937.1	1946.7
27.5°	4705.5	4235.8	2737.5	1676.7	1591.1	1681.5	1749.3	1793.3	1833.7	1871.7	1878.9
30°	4697.2	4106.2	2352.2	1505.5	1556.6	1647.0	1699.3	1731.4	1780.2	1809.9	1815.9
32.5°	4684.1	3955.2	1950.2	1413.9	1528.1	1614.9	1645.8	1674.3	1673.2	1661.3	1669.6
35°	4688.9	3774.4	1624.4	1359.2	1503.1	1591.1	1617.3	1581.6	1479.3	1474.6	1469.8
37.5°	4713.8	3596.0	1387.8	1321.2	1490.0	1587.5	1601.8	1437.7	1347.3	1305.7	1295.0
40°	4778.1	3387.9	1232.0	1292.6	1488.8	1614.9	1531.6	1365.2	1191.5	1110.7	1104.7
42.5°	4863.7	3183.4	1136.8	1274.8	1503.1	1656.5	1503.1	1262.9	1073.8	1026.2	1019.1
45°	4990.9	2949.1	1084.5	1266.5	1524.5	1672.0	1493.6	1188.0	1026.2	988.2	988.2
47.5°	5134.8	2725.6	1056.0	1260.5	1551.9	1661.3	1409.2	1164.2	1003.7	1008.4	1031.0
50°	5277.5	2531.7	1034.6	1247.4	1575.6	1655.3	1374.7	1163.0	1009.6	1070.2	1110.7
52.5°	5442.8	2395.0	1008.4	1226.0	1575.6	1617.3	1364.0	1186.8	1026.2	1044.1	1061.9
55°	5642.6	2352.2	975.1	1179.6	1547.1	1522.1	1358.0	1221.3	1038.1	996.5	1003.7
57.5°	5906.6	2421.1	943.0	1121.4	1481.7	1423.4	1355.6	1230.8	1010.8	976.3	969.2
60°	6213.4	2557.9	933.5	1061.9	1392.5	1339.0	1341.4	1203.4	972.7	937.1	943.0
62.5°	6428.6	2639.9	927.5	1016.7	1295.0	1246.2	1306.9	1170.1	956.1	925.2	931.1
65°	6428.6	2540.0	872.8	947.8	1168.9	1134.5	1265.3	1128.5	934.7	899.0	893.1
67.5°	6184.8	2248.7	789.6	844.3	1029.8	1007.2	1207.0	1078.6	902.6	875.2	861.0
70°	5549.8	1705.3	685.0	723.0	853.8	874.0	1132.1	1010.8	849.1	815.8	794.4
71°	5270.4	1485.3	641.0	661.2	786.0	815.8	1096.4	982.2	825.3	777.7	739.7
72.5°	4731.7	1251.0	574.4	582.7	671.9	725.4	1021.5	927.5	780.1	712.3	669.5
75°	3594.8	913.3	462.6	457.8	497.1	575.6	864.5	826.5	683.8	592.2	567.2
77.5°	1553.0	497.1	346.0	349.6	337.7	436.4	680.2	709.9	586.3	481.6	459.0
80°	470.9	286.6	236.6	241.4	225.9	292.5	479.2	556.5	470.9	374.6	343.7
82.5°	241.4	171.2	161.7	159.3	143.9	165.3	290.2	380.5	336.5	234.3	206.9
85°	104.6	91.6	79.7	77.3	67.8	59.5	103.5	190.3	178.4	130.8	124.9
87.5°	26.2	23.8	15.5	14.3	8.3	1.2	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)