

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: P527506

Luminaire Tested: **GALN-SA2C-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527506
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-SA2C-735-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA 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: 11142 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

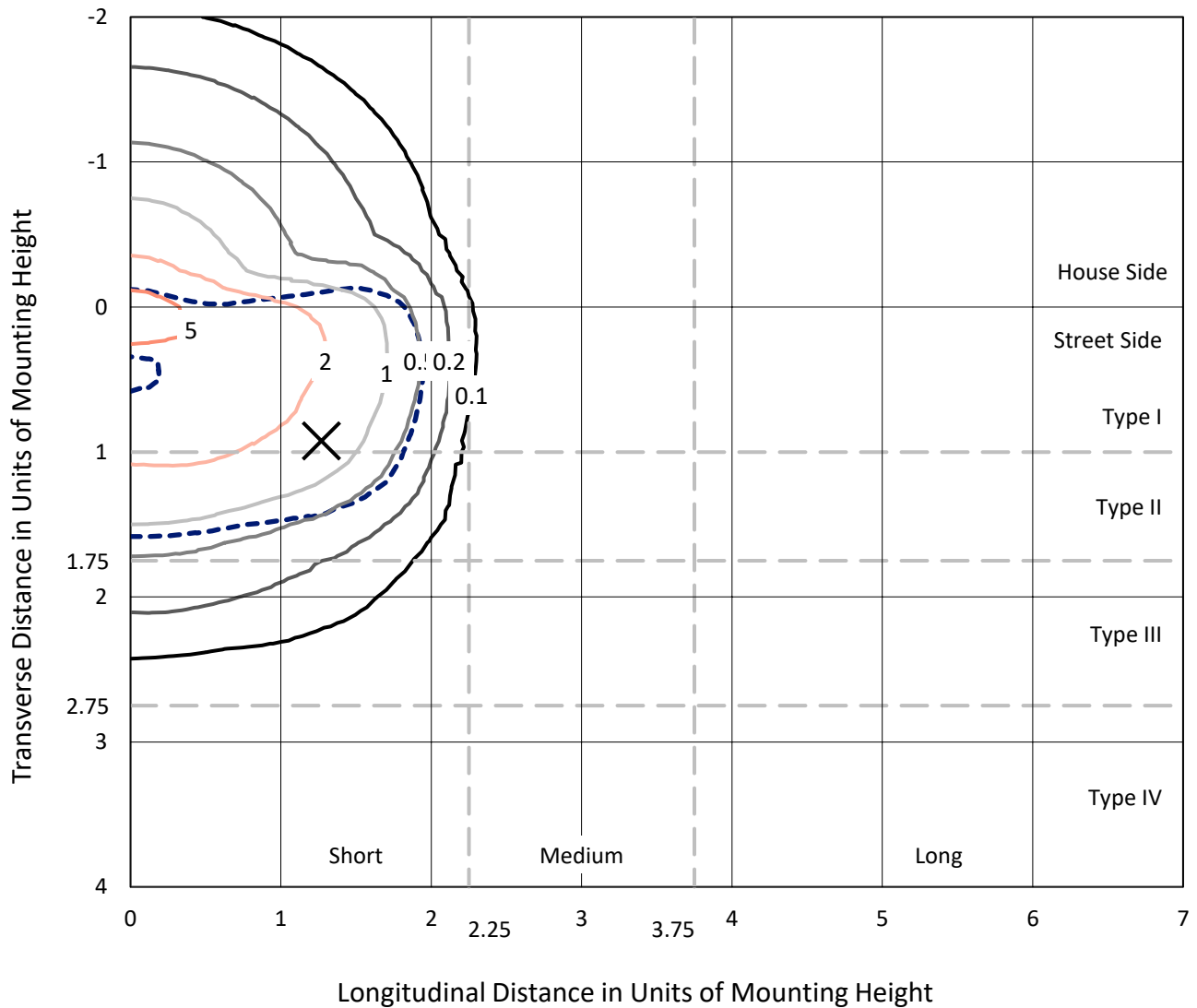
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

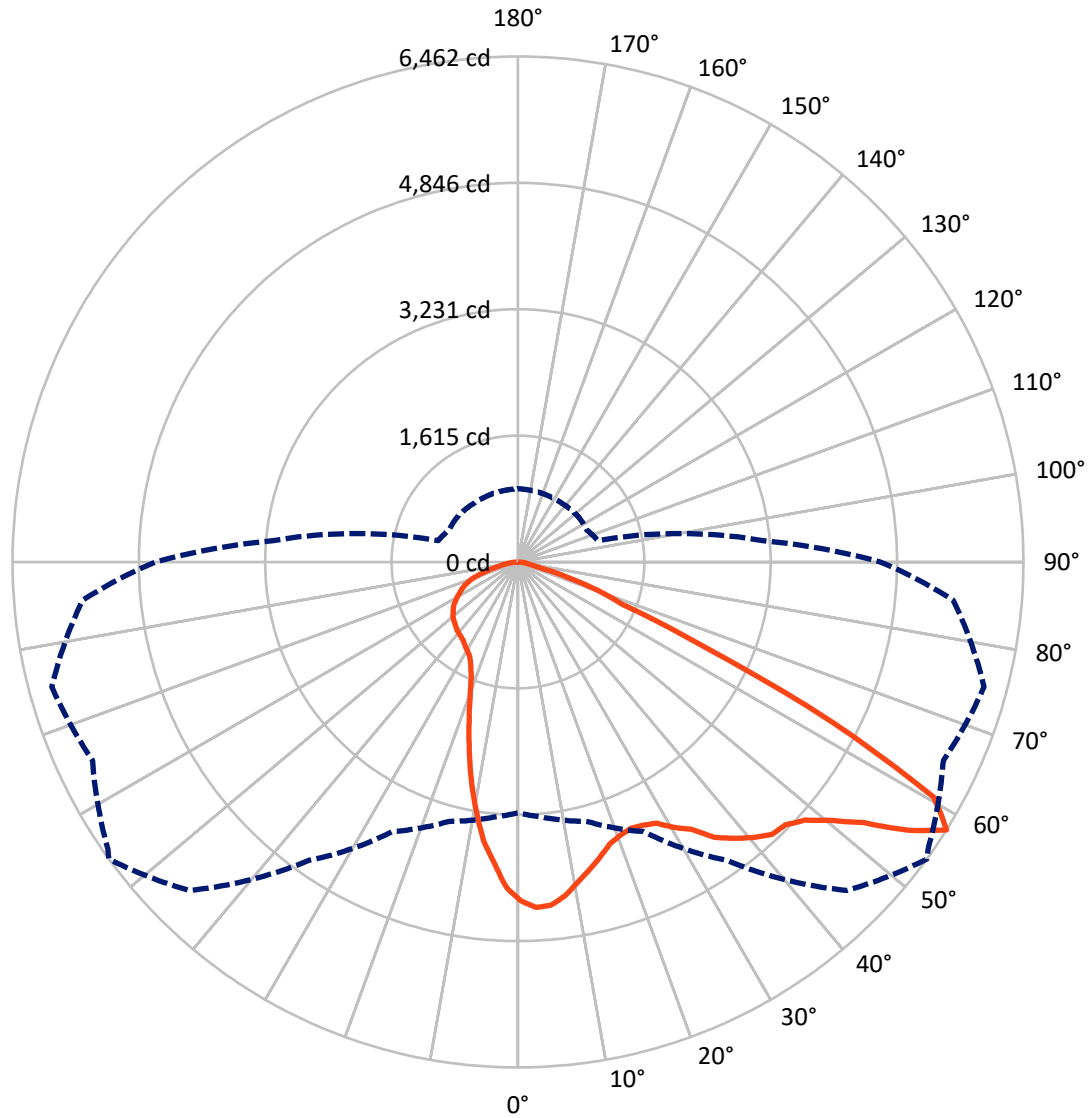
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	3082.5	0.0	3082.5
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	8059.5	0.0	8059.5
	% Fixture	72.3	0.0	72.3
Total	Lumens	11142.0	0.0	11142.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.5	3.4
10°-20°	864.8	7.8
20°-30°	1215.0	10.9
30°-40°	1698.6	15.2
40°-50°	2299.6	20.6
50°-60°	2800.9	25.1
60°-70°	1458.9	13.1
70°-80°	373.8	3.4
80°-90°	57.0	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°	11142.0	100.0
0°-180°	11142.0	100.0

Coefficient of Utilization



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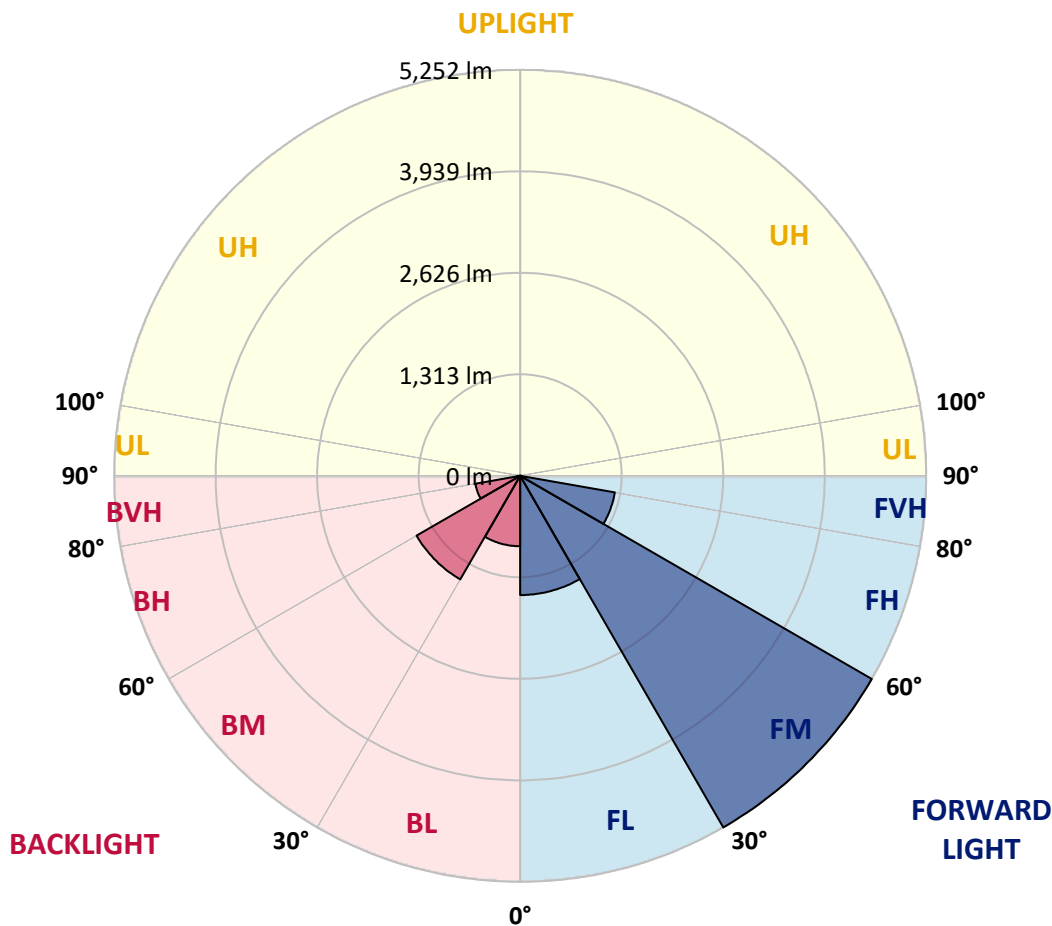
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1542.2	13.8			
FM (30°-60°)	5252.0	47.1			
FH (60°-80°)	1243.8	11.2			G1/1800
FVH (80°-90°)	21.5	0.2			G1/100
BL (0°-30°)	911.0	8.2	B2/1000		
BM (30°-60°)	1547.1	13.9	B2/2500		
BH (60°-80°)	588.9	5.3	B2/1000		G2/1000
BVH (80°-90°)	35.5	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4330.8	4330.8	4330.8	4330.8	4330.8	4330.8	4330.8	4330.8	4330.8	4330.8	4330.8
2.5°	4453.9	4436.7	4439.6	4462.5	4433.9	4422.4	4422.4	4366.6	4370.9	4332.2	4322.2
5°	4350.8	4310.7	4337.9	4372.3	4378.0	4389.5	4408.1	4393.8	4353.7	4312.2	4244.8
7.5°	4081.6	4117.4	4127.4	4151.8	4203.3	4250.6	4309.3	4269.2	4267.8	4226.2	4186.1
10°	3845.3	3823.8	3878.2	3914.0	3999.9	4078.7	4168.9	4164.6	4186.1	4138.9	4070.1
12.5°	3610.4	3593.2	3619.0	3700.6	3820.9	3935.5	4042.9	4002.8	4117.4	4108.8	3961.3
15°	3361.2	3374.1	3411.3	3487.2	3644.8	3782.3	3918.3	3919.7	4021.4	4055.8	3858.2
17.5°	3186.5	3172.2	3219.4	3332.6	3472.9	3637.6	3792.3	3823.8	3979.9	3999.9	3826.7
20°	3056.2	3076.2	3137.8	3195.1	3356.9	3556.0	3730.7	3742.2	3971.3	4025.7	3776.5
22.5°	3024.7	3013.2	3033.3	3126.3	3259.5	3475.8	3697.8	3740.7	3969.9	4017.1	3682.0
25°	2991.7	3029.0	3027.5	3120.6	3218.0	3411.3	3725.0	3772.2	4045.8	4061.5	3694.9
27.5°	3066.2	3061.9	3102.0	3109.2	3229.5	3428.5	3782.3	3818.1	4171.8	4158.9	3704.9
30°	3140.7	3119.2	3143.5	3228.0	3283.9	3527.3	3939.8	3936.9	4335.1	4326.5	3736.4
32.5°	3232.3	3222.3	3238.1	3312.5	3407.0	3659.1	4073.0	4157.5	4501.2	4555.6	3845.3
35°	3249.5	3291.0	3328.3	3428.5	3563.1	3872.5	4323.6	4393.8	4693.1	4863.5	4052.9
37.5°	3358.4	3374.1	3461.5	3639.0	3762.2	4157.5	4482.6	4527.0	4867.8	5061.2	4272.1
40°	3474.4	3493.0	3624.7	3810.9	3979.9	4343.7	4631.5	4645.8	4923.7	5213.0	4415.3
42.5°	3631.9	3649.1	3779.4	4012.8	4239.1	4502.6	4763.3	4779.0	4919.4	5387.7	4643.0
45°	3795.2	3836.7	3989.9	4254.9	4458.2	4688.8	4793.3	4857.8	4959.5	5543.8	4827.7
47.5°	4024.3	4063.0	4189.0	4448.2	4685.9	4852.1	4932.3	4995.3	5055.4	5679.8	4946.6
50°	4267.8	4274.9	4428.2	4663.0	4837.7	5036.8	5191.5	5213.0	5181.5	5837.4	5148.5
52.5°	4446.8	4469.7	4588.6	4817.7	5078.3	5323.2	5535.2	5558.1	5496.5	5896.1	5217.3
55°	4150.3	4137.4	4330.8	4635.8	5240.2	5750.0	6057.9	6075.1	5725.7	6078.0	5442.1
57.5°	3208.0	3269.6	3434.3	3802.3	4655.9	5939.1	6461.8	6400.2	6000.6	6169.6	5585.3
60°	2331.5	2317.2	2427.5	2673.8	3508.7	5118.4	6109.5	6172.5	5775.8	5561.0	4605.7
62.5°	1899.0	1879.0	1887.6	1896.1	2264.2	3397.0	4522.7	4521.2	4448.2	3997.1	3106.3
65°	1518.1	1565.3	1569.6	1634.1	1681.3	2029.3	2620.8	2761.2	2404.5	1972.0	1430.7
67.5°	1144.3	1127.1	1184.4	1413.5	1502.3	1465.1	1430.7	1446.5	1028.3	741.8	698.9
70°	674.5	667.4	736.1	985.3	1237.4	1164.3	1078.4	1079.8	706.0	518.4	577.1
72.5°	369.5	368.1	382.4	499.8	703.2	730.4	647.3	667.4	421.0	419.6	451.1
75°	206.2	201.9	197.6	220.5	253.5	267.8	273.5	276.4	289.3	323.7	336.6
77.5°	75.9	73.0	73.0	84.5	107.4	134.6	170.4	173.3	204.8	234.9	247.8
80°	25.8	28.6	38.7	53.0	71.6	96.0	116.0	118.9	144.6	164.7	169.0
82.5°	15.8	17.2	25.8	37.2	51.6	67.3	85.9	87.4	107.4	120.3	126.0
85°	7.2	8.6	14.3	22.9	32.9	44.4	45.8	45.8	44.4	45.8	43.0
87.5°	0.0	0.0	2.9	2.9	2.9	4.3	5.7	4.3	7.2	8.6	8.6
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°	4330.8	4330.8	4330.8	4330.8	4330.8	4330.8	4330.8	4330.8	4330.8	4330.8	4330.8
2.5°	4292.1	4276.3	4227.7	4184.7	4171.8	4114.5	4030.0	4040.0	3978.5	4007.1	3977.0
5°	4233.4	4180.4	4055.8	4002.8	3863.9	3800.9	3757.9	3650.5	3600.4	3590.4	3547.4
7.5°	4083.0	4050.1	3894.0	3750.8	3603.2	3477.2	3315.4	3205.1	3126.3	3104.9	3041.8
10°	3964.1	3891.1	3674.9	3457.2	3246.6	3027.5	2817.0	2652.3	2572.1	2479.0	2447.5
12.5°	3846.7	3736.4	3444.3	3165.0	2892.9	2616.5	2361.6	2161.1	1986.4	1944.8	1930.5
15°	3773.7	3581.8	3238.1	2901.5	2514.8	2153.9	1899.0	1767.3	1659.8	1615.4	1647.0
17.5°	3677.7	3454.3	3040.4	2592.2	2166.8	1834.6	1621.2	1539.5	1500.9	1505.2	1492.3
20°	3557.4	3334.0	2781.2	2311.5	1856.0	1591.1	1469.4	1439.3	1445.0	1455.0	1450.7
22.5°	3471.5	3187.9	2593.6	2025.0	1604.0	1456.5	1406.4	1384.9	1403.5	1412.1	1404.9
25°	3405.6	3063.3	2365.9	1771.5	1457.9	1380.6	1357.7	1356.2	1384.9	1396.3	1389.2
27.5°	3345.5	2947.3	2139.6	1578.2	1360.5	1321.9	1314.7	1331.9	1350.5	1362.0	1372.0
30°	3309.7	2858.5	1927.6	1416.4	1311.8	1293.2	1280.3	1296.1	1306.1	1317.6	1311.8
32.5°	3344.0	2795.5	1722.9	1324.7	1271.7	1253.1	1270.3	1260.3	1277.5	1287.5	1271.7
35°	3451.4	2739.7	1576.8	1276.0	1225.9	1233.1	1235.9	1231.6	1238.8	1230.2	1248.8
37.5°	3557.4	2719.6	1442.2	1234.5	1204.4	1204.4	1201.6	1193.0	1207.3	1204.4	1213.0
40°	3692.0	2732.5	1327.6	1190.1	1184.4	1181.5	1170.1	1168.6	1162.9	1164.3	1167.2
42.5°	3809.5	2761.2	1261.7	1161.5	1165.8	1171.5	1150.0	1132.8	1140.0	1125.7	1125.7
45°	3934.1	2786.9	1203.0	1141.4	1137.1	1135.7	1118.5	1108.5	1102.7	1104.2	1117.1
47.5°	4130.3	2824.2	1158.6	1114.2	1117.1	1095.6	1091.3	1078.4	1084.1	1092.7	1094.1
50°	4269.2	2902.9	1124.2	1082.7	1092.7	1078.4	1052.6	1046.9	1046.9	1061.2	1058.3
52.5°	4366.6	3013.2	1091.3	1048.3	1052.6	1041.2	1032.6	1019.7	1011.1	1031.1	1041.2
55°	4664.5	3196.5	1082.7	1019.7	1018.2	1006.8	991.0	978.1	973.8	976.7	996.8
57.5°	4635.8	3139.2	1055.5	969.6	966.7	950.9	935.2	930.9	929.5	932.3	938.0
60°	3763.6	2318.6	942.3	912.3	908.0	905.1	889.4	872.2	863.6	872.2	865.0
62.5°	2490.5	1552.4	830.6	843.5	846.4	839.2	813.5	796.3	799.1	809.2	793.4
65°	1223.0	912.3	753.3	787.7	790.5	770.5	746.1	726.1	716.1	724.7	717.5
67.5°	698.9	697.4	690.3	726.1	724.7	704.6	665.9	648.8	631.6	634.4	630.1
70°	592.9	604.4	618.7	640.2	638.7	615.8	570.0	557.1	532.8	529.9	522.7
72.5°	466.9	486.9	518.4	534.2	521.3	492.7	462.6	441.1	419.6	406.7	411.0
75°	346.6	375.2	392.4	402.4	382.4	366.6	342.3	316.5	290.7	279.3	275.0
77.5°	252.1	260.6	276.4	283.6	270.7	254.9	240.6	214.8	190.5	174.7	170.4
80°	176.2	181.9	193.3	193.3	193.3	186.2	167.6	141.8	126.0	111.7	108.8
82.5°	123.2	128.9	140.3	134.6	133.2	124.6	113.1	93.1	75.9	65.9	63.0
85°	43.0	47.3	57.3	68.7	73.0	71.6	64.4	51.6	40.1	32.9	30.1
87.5°	10.0	10.0	11.5	10.0	10.0	11.5	10.0	10.0	10.0	7.2	5.7
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)