

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: STREETWORKS

Report Number: P652739

Luminaire Tested: **GLAN-SA2C-840-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2C-840-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12117.1 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

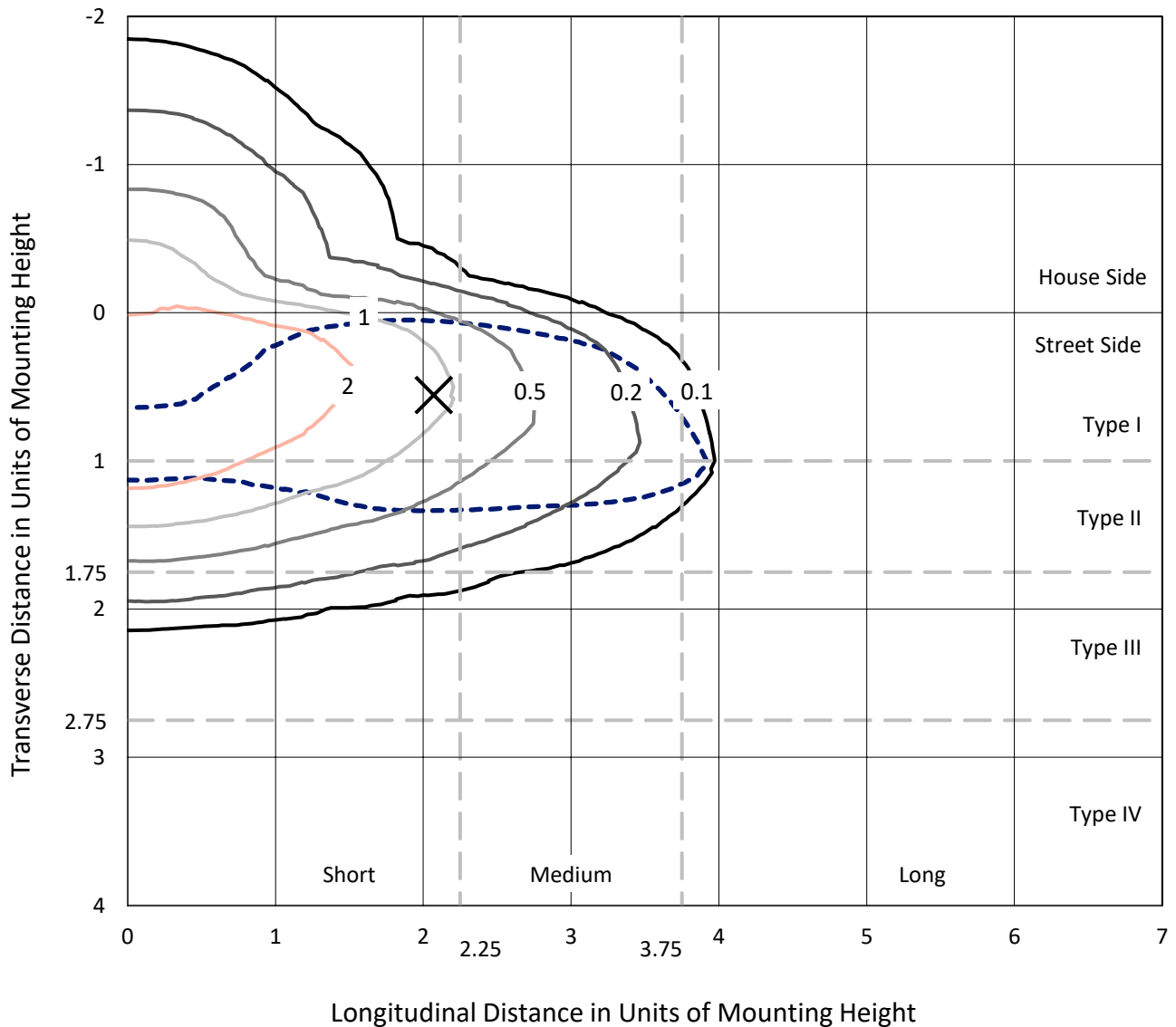
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

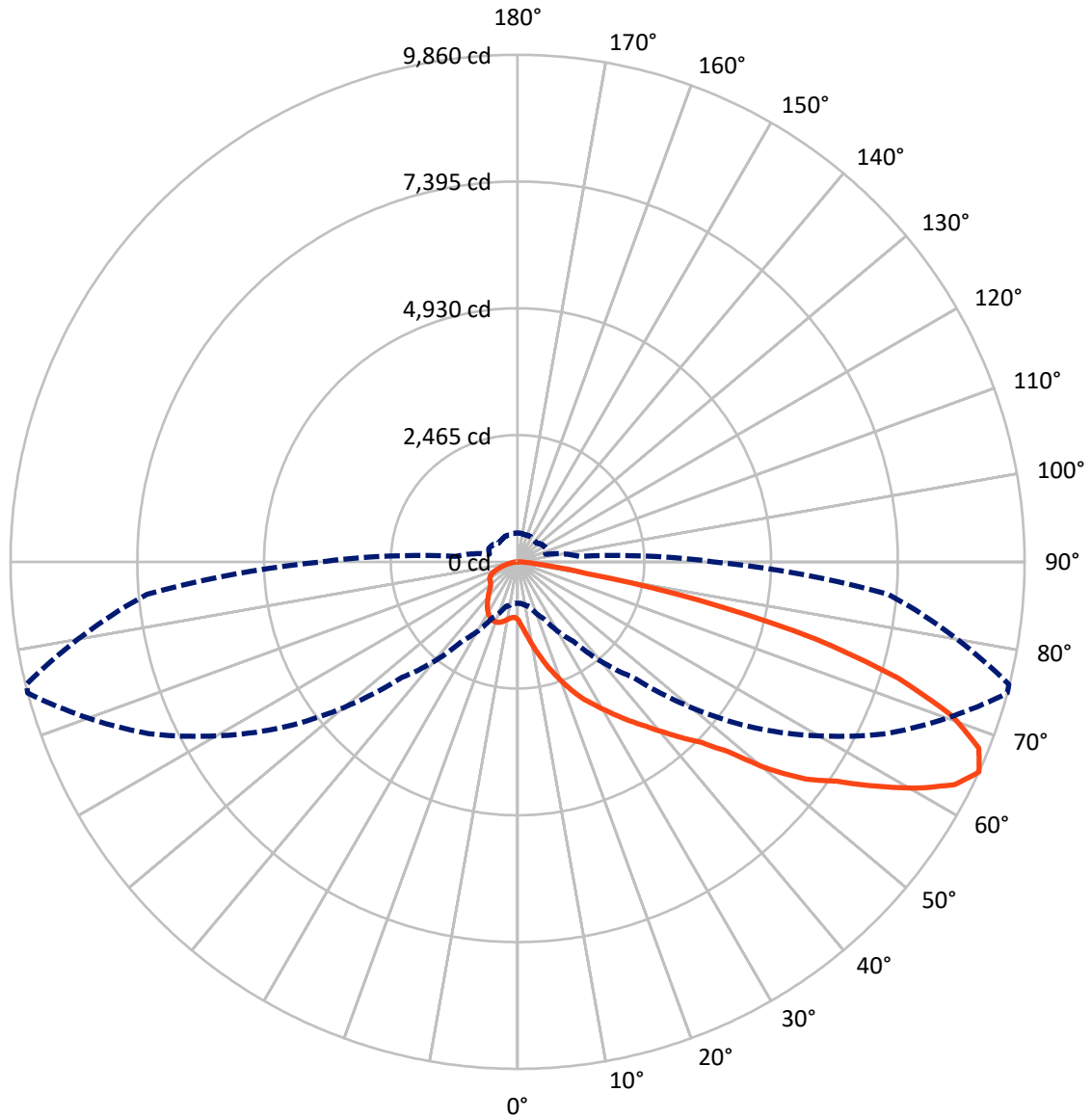
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2037.1	0.0	2037.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	10080.1	0.0	10080.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	12117.1	0.0	12117.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.8	1.1
10°-20°	535.8	4.4
20°-30°	1034.9	8.5
30°-40°	1681.0	13.9
40°-50°	2312.4	19.1
50°-60°	2730.2	22.5
60°-70°	2392.1	19.7
70°-80°	1142.0	9.4
80°-90°	152.0	1.3
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°	12117.1	100.0
0°-180°	12117.1	100.0

Coefficient of Utilization

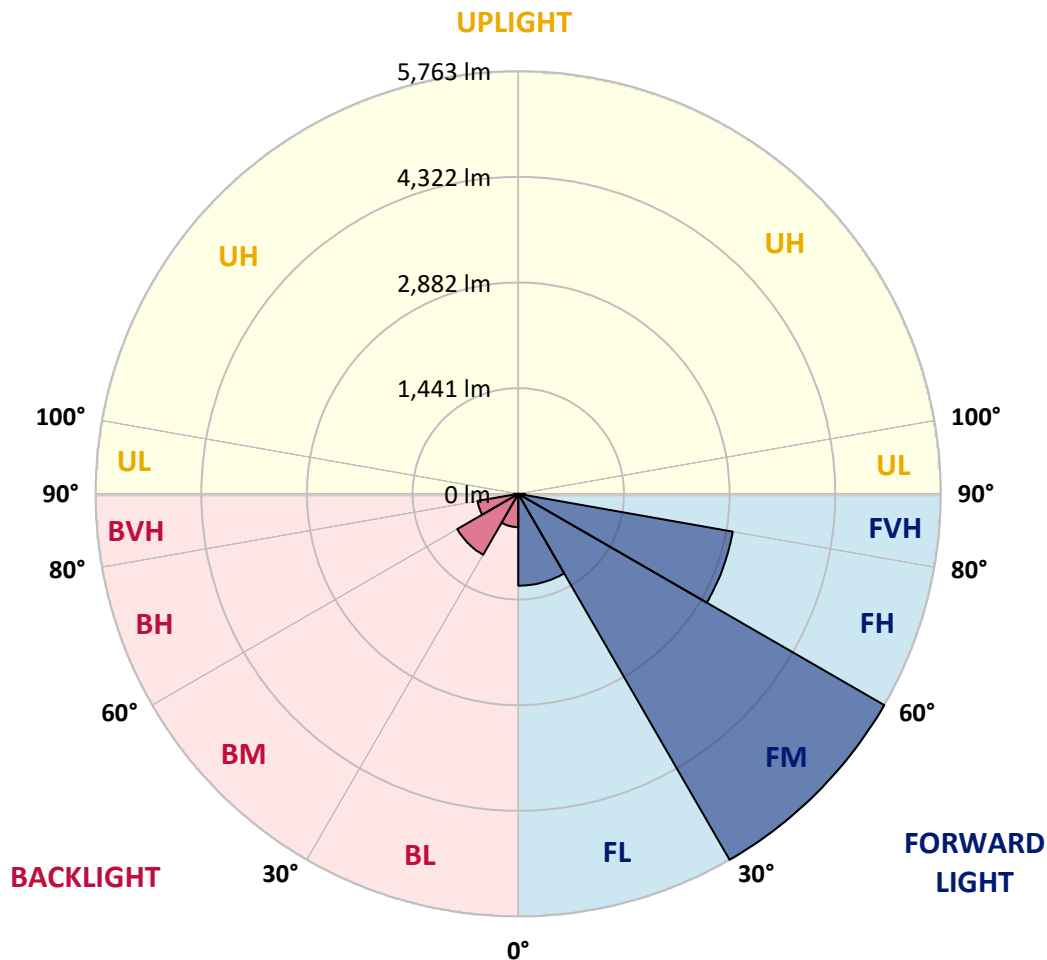


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1252.7	10.3			
FM (30°-60°)	5763.2	47.6			
FH (60°-80°)	2969.2	24.5			G2/5000
FVH (80°-90°)	95.0	0.8			G1/100
BL (0°-30°)	454.8	3.8	B1/500		
BM (30°-60°)	960.5	7.9	B1/1000		
BH (60°-80°)	564.8	4.7	B2/1000		G2/1000
BVH (80°-90°)	57.0	0.5			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°	55°	65°	75°	76°	85°
0°	1125.8	1125.8	1125.8	1125.8	1125.8	1125.8	1125.8	1125.8	1125.8	1125.8	1125.8
2.5°	1495.9	1486.0	1475.5	1446.6	1415.7	1380.8	1330.9	1282.9	1219.2	1217.2	1169.8
5°	1910.6	1904.0	1857.3	1830.4	1758.8	1663.4	1582.6	1457.1	1340.7	1326.9	1234.9
7.5°	2291.7	2266.2	2248.4	2199.7	2128.7	2006.5	1850.1	1680.6	1486.0	1467.6	1315.2
10°	2579.0	2576.3	2567.2	2525.1	2471.9	2350.3	2176.8	1933.5	1670.1	1633.9	1412.4
12.5°	2793.9	2795.8	2794.6	2793.9	2755.8	2652.6	2464.6	2208.3	1856.0	1830.4	1524.7
15°	2935.2	2954.9	2962.8	2995.6	2998.9	2930.0	2768.2	2473.8	2065.7	2027.6	1645.7
17.5°	3028.5	3038.4	3075.2	3131.0	3176.4	3163.9	3019.9	2719.6	2280.0	2216.2	1771.2
20°	3117.9	3135.0	3163.3	3239.4	3319.7	3356.4	3255.3	2971.3	2492.2	2451.4	1909.9
22.5°	3303.9	3328.2	3338.1	3376.9	3445.2	3510.2	3464.2	3212.5	2724.8	2669.7	2057.2
25°	3618.7	3644.3	3616.7	3607.6	3629.8	3662.1	3652.2	3439.9	2944.4	2865.5	2196.4
27.5°	4028.8	4032.1	3978.2	3927.0	3871.7	3855.3	3825.0	3641.7	3135.0	3069.2	2336.5
30°	4469.2	4453.3	4364.0	4271.4	4178.0	4086.0	3999.2	3836.2	3347.3	3271.7	2473.8
32.5°	4878.0	4869.4	4770.2	4626.3	4468.5	4381.8	4206.3	4032.8	3574.7	3501.8	2615.1
35°	5184.3	5196.7	5087.6	4930.5	4758.4	4681.4	4460.0	4239.1	3810.0	3730.4	2768.9
37.5°	5401.7	5395.2	5298.6	5162.6	5011.4	4944.3	4756.4	4464.5	4063.0	3986.8	2937.2
40°	5479.3	5475.4	5403.8	5304.5	5208.6	5184.8	5066.6	4707.7	4352.8	4263.4	3139.6
42.5°	5430.0	5438.6	5391.2	5364.3	5346.6	5363.6	5374.8	5026.5	4669.0	4586.8	3359.1
45°	5278.9	5274.2	5267.7	5311.8	5411.7	5524.0	5679.8	5327.5	5012.7	4946.9	3653.6
47.5°	5008.7	5041.6	5058.0	5179.6	5397.8	5664.0	6030.7	5731.1	5511.5	5454.4	4102.4
50°	4630.8	4657.1	4754.4	4970.6	5295.9	5716.6	6373.8	6390.9	6343.6	6236.4	4590.1
52.5°	4040.7	4081.4	4281.9	4678.1	5087.0	5694.9	6581.5	6956.8	7019.2	6939.0	5070.6
55°	3380.1	3437.3	3648.9	4168.8	4799.1	5576.6	6724.8	7284.7	7533.8	7459.6	5533.2
57.5°	2733.4	2793.9	3011.5	3514.9	4297.0	5315.0	6818.7	7650.2	8234.4	8137.9	6108.9
60°	2048.6	2111.7	2298.4	2816.8	3581.9	4803.7	6755.0	7967.0	8934.4	8893.0	6685.4
62.5°	1321.7	1391.4	1553.7	1982.8	2753.1	4105.1	6413.9	8141.7	9540.3	9490.4	7105.9
65°	805.1	813.0	902.4	1231.0	1884.3	3178.4	5633.8	7909.8	9859.7	9844.7	7234.1
67.5°	520.5	533.0	573.7	737.4	1129.8	2207.6	4504.6	7144.1	9673.1	9667.9	6969.3
70°	439.7	443.6	462.0	497.5	656.6	1338.8	3163.3	5923.6	8964.0	8964.0	6332.4
72.5°	393.0	398.3	404.9	416.0	468.6	758.4	1887.5	4611.1	7739.6	7790.8	5390.0
75°	356.8	355.6	359.5	361.5	399.6	495.5	976.0	3410.3	5987.3	5884.8	3903.2
77.5°	305.6	307.6	305.6	314.2	353.0	377.3	495.5	2288.4	3628.6	3495.8	1959.2
80°	251.0	254.3	257.6	262.9	301.7	286.5	297.7	1043.0	1342.1	1313.8	605.3
82.5°	188.6	193.3	198.5	211.0	237.2	189.3	188.0	445.6	484.4	443.6	222.8
85°	76.3	90.1	136.1	148.5	149.2	103.9	115.6	186.0	197.8	193.3	87.4
87.5°	17.7	21.0	44.1	66.4	61.1	38.8	42.7	60.5	69.0	63.7	29.6
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°	1125.8	1125.8	1125.8	1125.8	1125.8	1125.8	1125.8	1125.8	1125.8	1125.8	1125.8
2.5°	1148.2	1125.2	1085.7	1055.5	1033.8	1014.8	1002.9	995.7	993.1	992.4	993.1
5°	1187.0	1146.2	1083.8	1044.4	1022.7	1010.1	1002.9	1002.3	1002.9	1003.6	1001.6
7.5°	1240.2	1181.7	1100.2	1063.4	1047.0	1037.8	1034.5	1033.2	1033.8	1033.2	1033.2
10°	1311.2	1231.0	1132.4	1094.3	1080.5	1070.0	1064.7	1061.4	1058.8	1056.1	1054.9
12.5°	1389.4	1285.6	1167.2	1130.5	1110.7	1094.3	1082.5	1073.9	1068.0	1062.1	1060.8
15°	1476.8	1343.4	1206.0	1154.8	1126.5	1102.2	1081.8	1068.0	1057.5	1049.0	1048.3
17.5°	1560.2	1397.9	1232.3	1166.0	1124.5	1090.4	1063.4	1044.4	1031.2	1020.0	1018.7
20°	1649.6	1449.9	1244.2	1158.7	1104.8	1063.4	1027.9	1004.9	989.8	977.3	975.3
22.5°	1739.7	1493.9	1242.8	1135.7	1070.6	1022.0	984.6	960.3	942.5	930.0	925.4
25°	1825.8	1529.4	1226.4	1098.9	1023.3	972.7	934.6	912.2	896.4	881.4	881.4
27.5°	1903.4	1550.4	1195.5	1054.2	974.6	921.4	891.2	870.9	856.4	846.6	840.6
30°	1979.5	1560.2	1153.4	997.7	923.4	878.1	853.8	841.9	828.8	817.6	816.3
32.5°	2047.9	1558.3	1100.9	942.5	874.8	842.6	832.7	823.5	809.7	793.9	790.0
35°	2114.3	1545.2	1038.4	882.0	834.0	821.6	824.2	811.1	786.1	766.3	763.0
37.5°	2186.6	1521.5	970.1	832.7	799.9	811.6	818.2	789.4	748.6	717.7	710.5
40°	2270.1	1494.5	899.1	783.4	772.9	802.5	802.5	749.2	693.4	674.3	669.1
42.5°	2368.0	1472.2	839.9	742.0	750.6	780.1	776.8	696.0	673.0	663.1	660.5
45°	2523.1	1464.3	778.9	705.9	732.2	753.9	726.9	677.6	664.5	656.6	654.0
47.5°	2768.2	1473.5	724.9	678.9	711.1	727.5	671.0	665.1	655.9	644.7	643.4
50°	2995.6	1464.9	686.8	663.8	692.7	696.0	648.0	650.0	644.7	632.3	629.7
52.5°	3181.7	1438.0	662.5	655.9	676.9	640.8	626.4	633.6	631.6	615.9	613.2
55°	3386.0	1421.6	650.7	655.9	666.4	592.8	605.9	616.5	613.8	602.7	602.0
57.5°	3633.8	1424.9	642.1	657.9	655.9	568.5	585.6	598.1	597.4	594.2	594.2
60°	3887.5	1426.2	629.0	657.2	643.4	549.4	564.6	582.3	583.7	585.6	585.6
62.5°	3971.6	1369.0	603.3	645.4	615.9	531.0	544.9	569.2	567.8	573.1	573.7
65°	3814.5	1210.6	565.2	618.5	580.4	517.9	529.7	552.0	544.9	558.7	561.3
67.5°	3472.2	1001.6	506.0	569.8	540.9	504.1	519.9	528.4	515.3	542.2	542.9
70°	3000.9	782.1	431.2	500.8	496.2	489.6	512.0	498.8	480.5	513.3	506.7
72.5°	2509.3	597.4	344.4	409.5	436.4	467.9	498.2	460.7	435.0	445.0	433.1
75°	1884.9	441.7	276.7	320.8	363.5	437.1	485.7	414.7	375.3	366.1	363.5
77.5°	960.8	288.5	207.1	239.9	272.7	395.0	468.6	360.8	310.8	296.5	289.8
80°	343.0	179.4	145.9	165.6	184.0	339.8	409.5	298.4	241.2	238.6	241.2
82.5°	159.0	115.6	97.9	108.4	109.1	226.7	312.2	222.8	183.3	278.6	235.3
85°	68.4	57.9	55.2	53.9	50.0	101.2	175.5	119.6	186.6	83.4	76.9
87.5°	20.4	23.0	20.4	15.1	11.2	11.2	17.7	6.6	4.6	3.3	3.3
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)