

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: P323355

Luminaire Tested: **GAN-SA1B-830-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323355
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3939 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

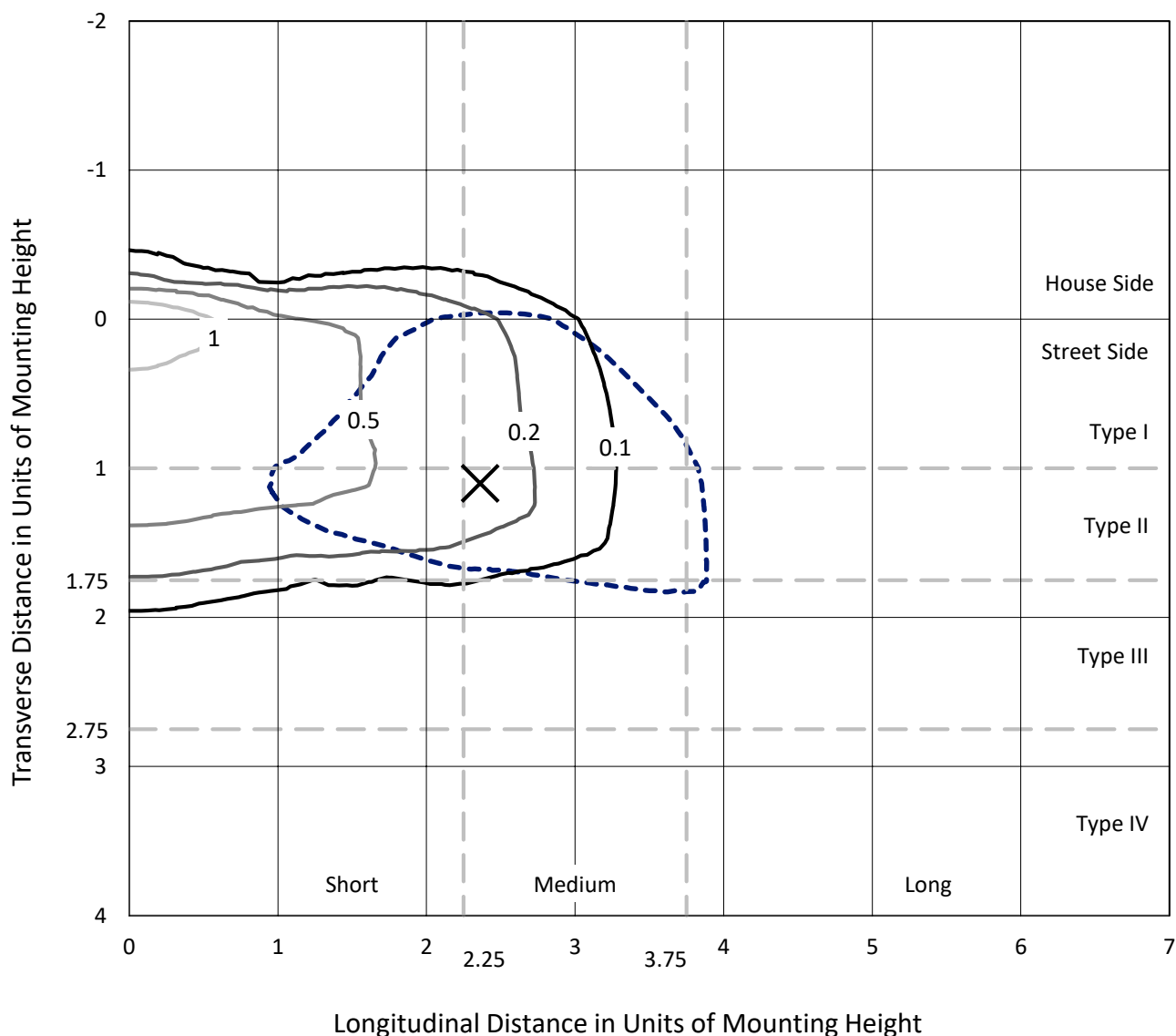
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

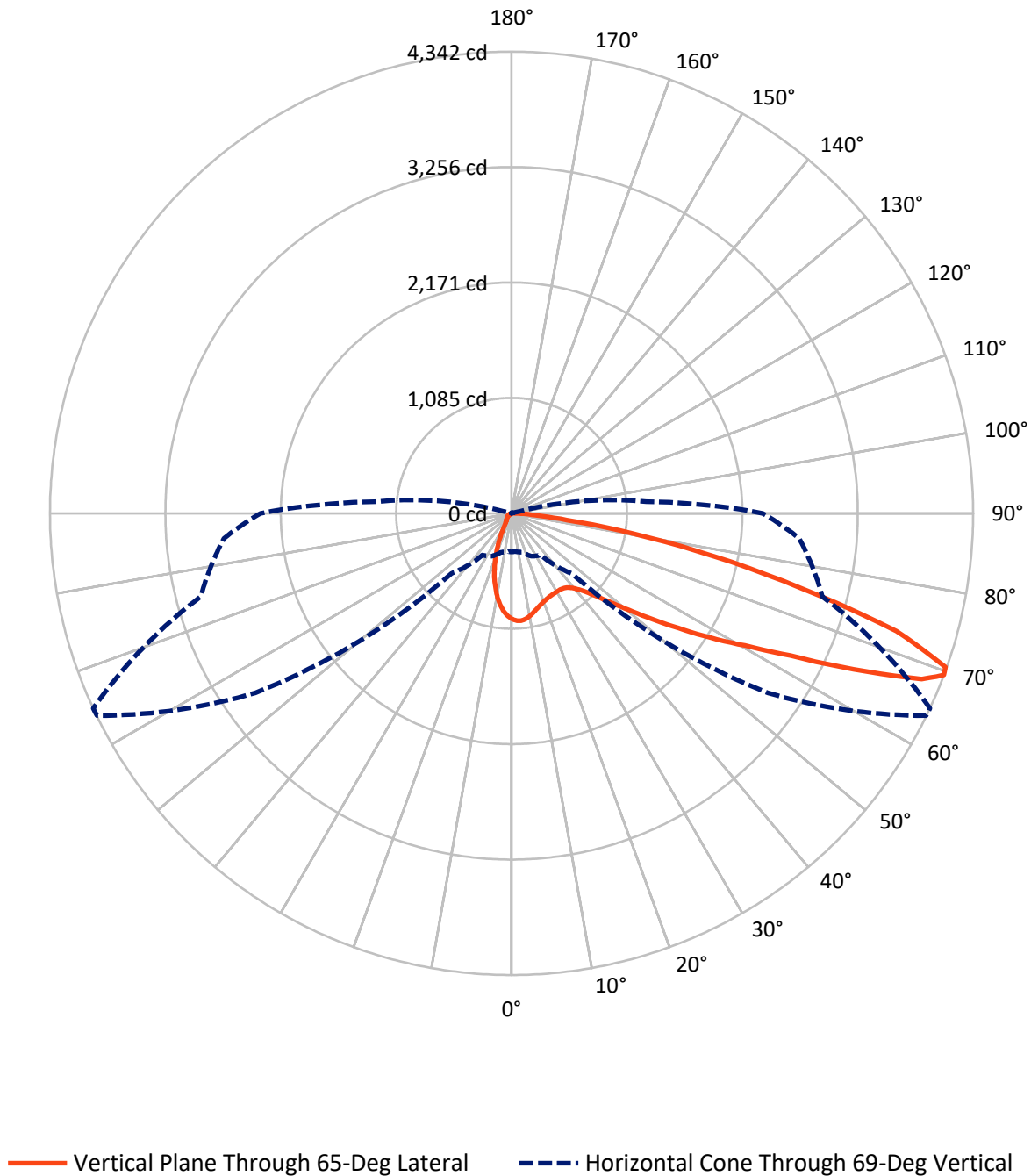
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	464.3	0.0	464.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	3474.7	0.0	3474.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	3939.0	0.0	3939.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	2.1
10°-20°	182.2	4.6
20°-30°	252.4	6.4
30°-40°	351.9	8.9
40°-50°	546.9	13.9
50°-60°	878.0	22.3
60°-70°	993.2	25.2
70°-80°	583.3	14.8
80°-90°	67.9	1.7
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°	3939.0	100.0
0°-180°	3939.0	100.0

Coefficient of Utilization



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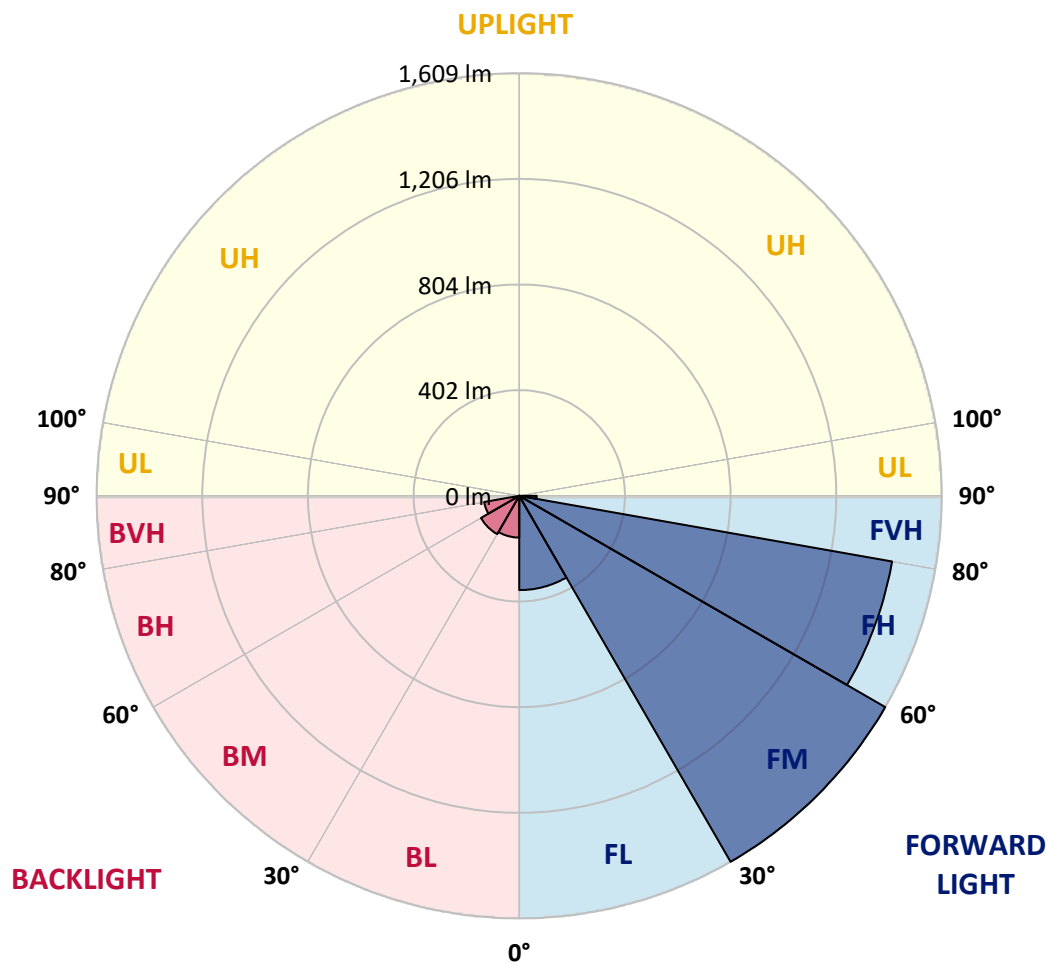
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	358.9	9.1			
FM	(30°-60°)	1608.6	40.8			
FH	(60°-80°)	1440.8	36.6			G1/1800
FVH	(80°-90°)	66.3	1.7			G1/100
BL	(0°-30°)	158.9	4.0	B1/500		
BM	(30°-60°)	168.3	4.3	B0/220		
BH	(60°-80°)	135.7	3.4	B1/500		G1/500
BVH	(80°-90°)	1.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	995.4	995.4	995.4	995.4	995.4	995.4	995.4	995.4	995.4	995.4	995.4
2.5°	1004.2	1001.7	1003.7	1008.1	1010.2	1010.2	1011.9	1009.9	1010.6	1005.7	998.7
5°	941.4	937.6	943.1	955.2	970.2	983.1	1002.1	1012.1	1013.1	1013.2	1005.1
7.5°	873.7	870.2	878.4	892.7	912.1	935.9	969.1	998.1	999.7	1015.4	1009.4
10°	818.7	816.2	825.7	841.0	863.7	890.4	931.1	971.4	976.2	1010.9	1008.7
12.5°	775.0	773.0	782.0	799.7	822.9	852.4	894.9	941.7	948.2	1000.7	1005.4
15°	743.2	742.9	750.4	767.4	793.0	820.5	864.1	914.2	921.7	989.7	1004.9
17.5°	726.5	727.0	732.5	747.0	769.0	796.4	838.0	891.1	899.2	979.9	1007.4
20°	724.9	725.4	728.4	736.5	754.4	778.5	816.9	871.6	880.1	972.6	1011.4
22.5°	739.5	739.2	740.0	739.2	749.2	767.5	802.9	856.6	866.4	967.7	1014.6
25°	767.7	767.2	766.9	760.7	754.0	763.9	797.0	848.1	857.4	964.2	1016.4
27.5°	806.9	806.5	806.0	795.9	775.9	769.7	797.7	844.9	852.7	961.4	1016.1
30°	858.4	860.7	860.1	845.9	814.7	787.5	804.7	843.2	850.1	955.9	1012.6
32.5°	918.9	923.6	927.2	912.1	873.1	822.9	820.9	845.0	850.1	951.7	1006.2
35°	981.7	987.7	1001.2	995.9	944.6	876.1	848.7	856.1	860.2	954.1	1003.2
37.5°	1043.6	1050.7	1080.1	1095.6	1038.2	946.4	892.1	883.2	885.4	968.2	1006.6
40°	1115.4	1126.2	1170.7	1195.7	1150.1	1040.6	956.9	929.9	930.7	999.4	1022.1
42.5°	1209.7	1220.9	1269.1	1308.2	1276.1	1159.6	1044.9	1001.2	1000.4	1057.7	1058.6
45°	1324.7	1336.4	1386.2	1429.8	1415.3	1300.6	1157.6	1105.4	1104.4	1149.7	1127.7
47.5°	1455.1	1466.6	1511.1	1555.9	1571.6	1465.3	1301.1	1247.6	1245.2	1277.6	1234.6
50°	1566.9	1574.4	1615.4	1675.8	1746.4	1667.6	1479.6	1428.1	1425.6	1447.4	1391.4
52.5°	1607.6	1611.9	1653.6	1738.1	1914.4	1941.6	1714.1	1647.8	1645.9	1655.4	1600.3
55°	1525.3	1533.1	1584.3	1709.6	2005.5	2251.3	2010.1	1919.8	1905.9	1885.4	1818.6
57.5°	1300.9	1313.4	1368.4	1535.1	1962.9	2497.0	2445.1	2227.5	2207.1	2081.8	1996.1
60°	974.7	990.1	1035.7	1215.6	1736.1	2584.5	2920.5	2570.3	2524.5	2238.1	2159.3
62.5°	668.9	676.5	707.5	824.7	1278.6	2441.1	3318.2	3029.5	2945.8	2408.1	2335.8
65°	510.9	513.5	526.2	566.5	761.4	1983.0	3476.4	3635.4	3534.2	2611.5	2519.0
67.5°	411.7	409.5	427.0	484.7	509.9	1209.7	3291.9	4208.6	4161.2	2883.3	2703.3
69°	363.0	360.0	377.9	444.9	478.9	799.7	2942.8	4338.8	4341.8	3026.8	2716.0
70°	326.7	328.7	346.4	421.2	468.4	627.7	2609.5	4305.6	4329.3	3080.5	2640.0
72.5°	218.2	223.5	259.0	349.7	450.4	475.0	1575.6	3694.7	3785.7	2959.7	2265.0
75°	123.0	127.0	169.2	263.7	424.4	452.4	832.2	2722.0	2810.0	2475.0	1746.6
77.5°	60.3	62.5	95.7	170.2	354.9	431.0	472.0	1848.9	1949.4	1615.4	987.9
80°	25.5	26.7	47.8	105.0	253.7	411.4	350.5	1137.9	1150.4	632.9	263.2
82.5°	9.8	10.2	20.2	65.5	161.2	320.7	293.2	539.5	526.5	119.2	60.0
85°	1.2	1.3	7.3	39.3	89.7	165.0	238.2	232.5	215.2	23.7	30.8
87.5°	0.0	0.0	0.5	12.0	26.7	77.3	123.8	96.5	87.0	7.7	16.0
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°	995.4	995.4	995.4	995.4	995.4	995.4	995.4	995.4	995.4	995.4	995.4
2.5°	992.9	991.2	982.2	969.2	956.9	941.6	926.9	918.1	911.1	906.4	911.9
5°	995.6	988.2	960.9	925.9	891.6	852.9	816.9	786.4	774.4	761.0	767.0
7.5°	994.7	980.9	931.7	869.4	806.4	741.2	679.5	632.0	607.4	583.2	589.4
10°	990.6	967.2	892.7	800.4	706.0	612.4	524.9	458.4	421.2	387.5	392.4
12.5°	981.4	948.9	846.7	721.4	595.2	471.7	369.2	284.0	238.3	218.2	220.7
15°	975.9	931.1	798.0	641.4	476.9	328.5	225.7	167.8	147.0	140.3	141.2
17.5°	973.2	913.9	747.7	549.9	355.9	209.2	145.8	128.7	124.2	123.0	123.3
20°	970.6	896.6	695.9	459.4	245.2	140.7	119.8	114.8	113.2	111.7	112.0
22.5°	966.1	879.9	640.2	367.7	165.3	114.2	108.0	103.2	99.7	97.8	98.2
25°	960.6	862.4	583.4	273.8	120.7	101.8	96.0	89.2	85.0	81.7	81.8
27.5°	951.7	840.9	524.7	199.3	101.3	91.2	83.3	75.8	68.8	65.0	65.0
30°	939.4	816.5	459.5	142.7	90.8	80.7	71.2	61.8	54.3	50.8	50.5
32.5°	925.7	791.2	393.7	108.2	82.5	70.8	60.0	50.2	43.5	40.7	40.5
35°	914.1	763.9	328.0	90.7	74.2	61.3	49.5	41.2	35.8	33.5	33.3
37.5°	906.6	736.5	264.0	81.0	66.7	52.5	41.5	34.0	30.2	28.3	28.2
40°	905.4	716.2	205.5	73.7	59.7	44.7	34.7	28.8	25.3	23.3	23.2
42.5°	920.6	704.5	157.7	67.5	52.5	37.8	29.5	24.7	21.0	19.0	18.8
45°	960.4	708.2	121.3	62.0	45.3	32.0	25.0	20.5	17.2	15.7	15.3
47.5°	1033.1	733.5	96.5	56.5	38.5	27.2	21.3	17.0	14.2	12.7	12.5
50°	1162.4	793.0	80.7	50.5	32.2	23.2	17.7	13.8	11.5	10.2	10.0
52.5°	1334.1	899.1	72.0	44.7	26.7	19.7	14.5	11.0	9.0	8.0	7.8
55°	1523.4	1027.4	66.3	38.3	21.8	16.3	11.5	8.7	7.0	6.2	5.8
57.5°	1708.3	1138.6	61.0	32.2	18.2	13.3	9.2	6.8	5.5	4.7	4.5
60°	1878.1	1240.7	54.8	25.8	14.8	10.5	7.2	5.3	4.3	3.5	3.5
62.5°	2060.0	1319.7	46.3	20.2	12.2	8.0	5.8	4.8	3.5	3.0	2.8
65°	2252.6	1378.4	36.3	15.7	9.5	6.0	4.8	5.0	2.8	2.2	2.0
67.5°	2395.0	1366.7	26.8	12.3	7.3	4.7	4.7	5.3	2.5	1.7	1.5
69°	2363.6	1271.9	22.5	10.7	6.3	4.0	4.3	5.3	2.3	1.5	1.3
70°	2272.8	1166.9	19.8	9.5	5.7	3.7	4.2	5.2	2.2	1.5	1.3
72.5°	1892.8	878.9	15.5	7.2	4.5	3.0	3.5	4.5	2.2	1.5	1.2
75°	1423.8	562.5	11.8	5.2	3.3	2.3	2.7	3.3	2.2	1.3	1.2
77.5°	774.7	202.8	8.5	3.5	2.3	1.8	1.8	2.5	2.0	1.0	0.7
80°	199.2	51.0	5.3	2.3	1.8	1.3	1.2	1.7	1.2	0.2	0.0
82.5°	49.2	11.5	2.8	1.7	1.3	0.5	0.5	0.8	0.5	0.0	0.0
85°	27.0	5.7	1.8	1.2	0.7	0.0	0.0	0.2	0.0	0.0	0.0
87.5°	13.8	1.7	0.5	0.3	0.2	0.0	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)