

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: P321783

Luminaire Tested: **GAN-SA9D-830-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321783
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42393 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

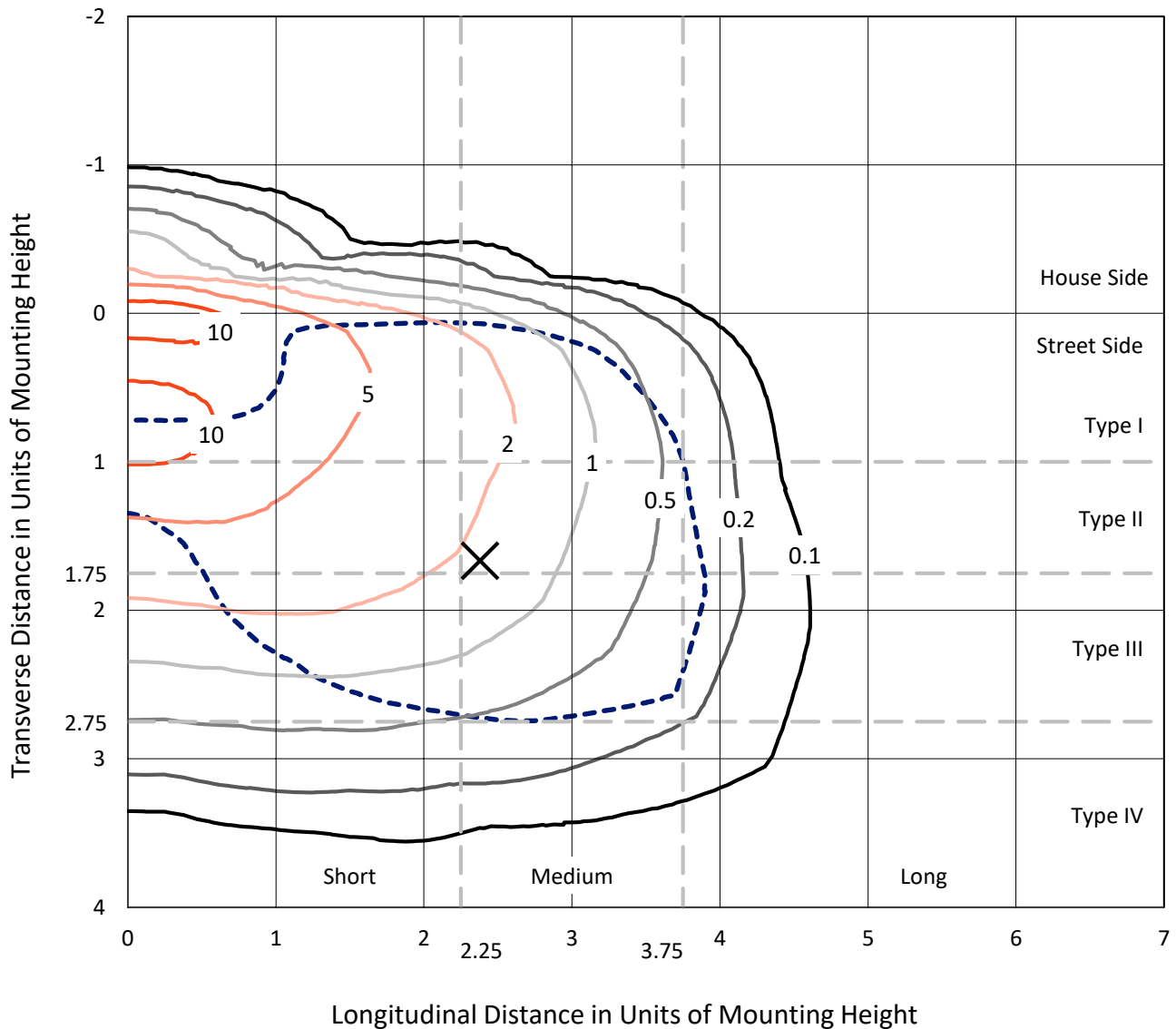
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

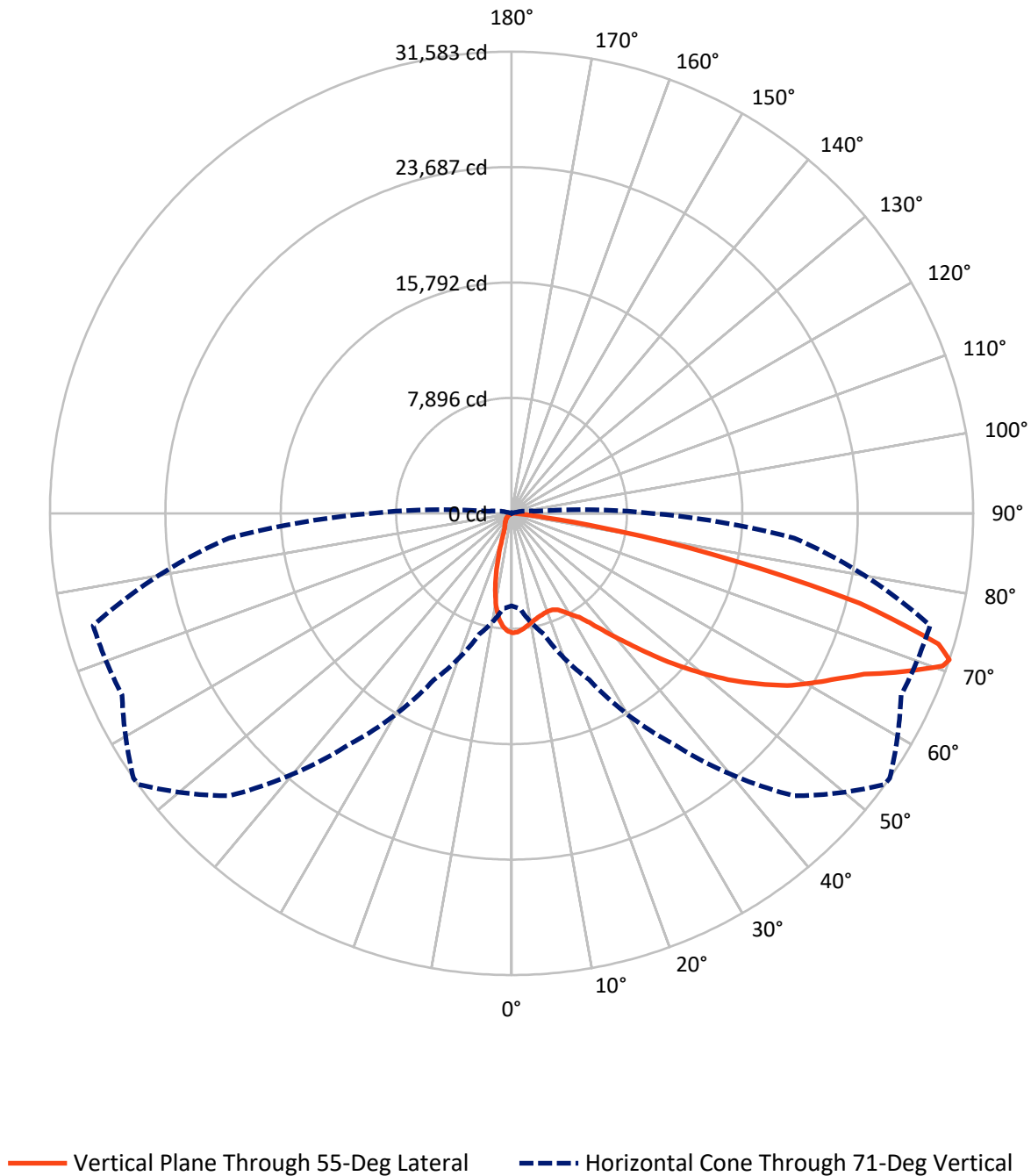
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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	3356.4	0.0	3356.4
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	39036.6	0.0	39036.6
	% Fixture	92.1	0.0	92.1
Total	Lumens	42393.0	0.0	42393.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	697.1	1.6
10°-20°	1573.7	3.7
20°-30°	2529.0	6.0
30°-40°	4296.9	10.1
40°-50°	6669.4	15.7
50°-60°	8966.8	21.2
60°-70°	10969.3	25.9
70°-80°	6413.5	15.1
80°-90°	277.2	0.7
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°	42393.0	100.0
0°-180°	42393.0	100.0

Coefficient of Utilization



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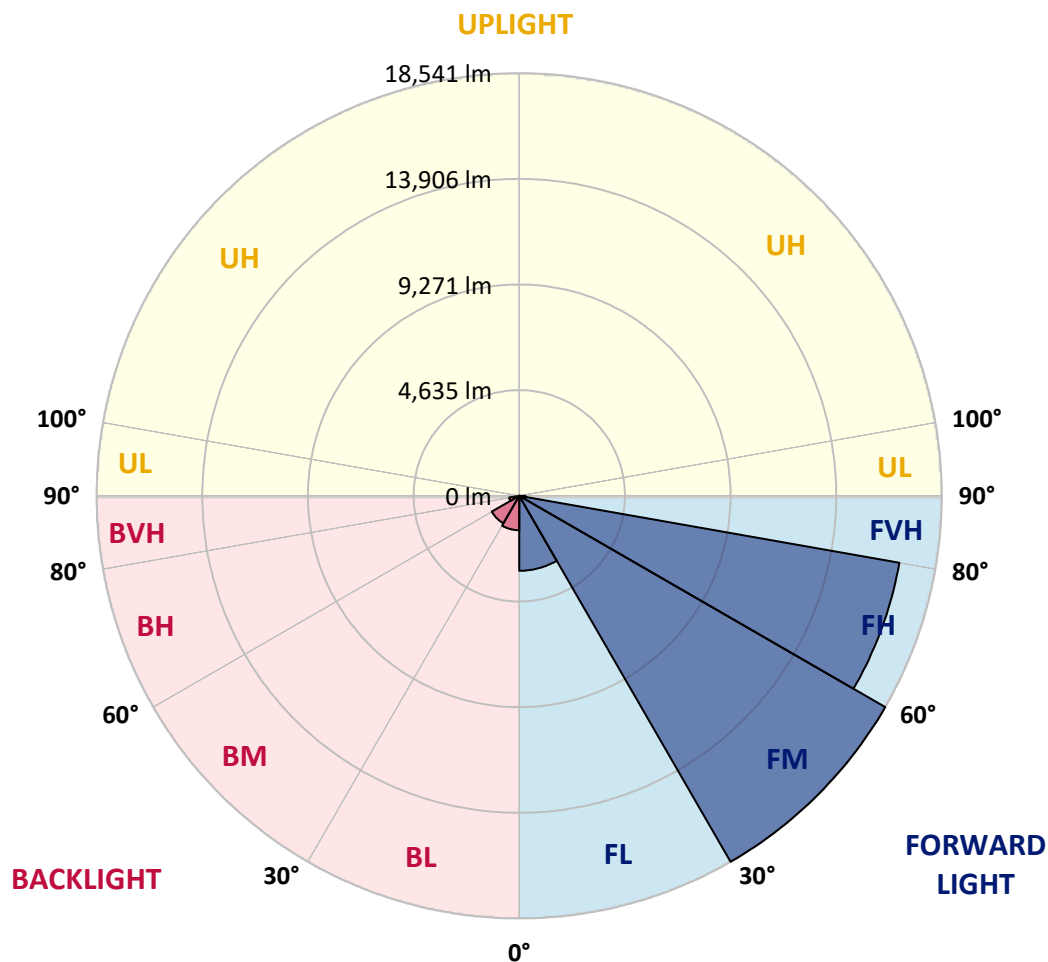
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3289.1	7.8			
FM	(30°-60°)	18541.5	43.7			
FH	(60°-80°)	16933.2	39.9			G5
FVH	(80°-90°)	272.9	0.6			G3/500
BL	(0°-30°)	1510.7	3.6	B3/2500		
BM	(30°-60°)	1391.6	3.3	B2/2500		
BH	(60°-80°)	449.7	1.1	B1/500		G1/500
BVH	(80°-90°)	4.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8175.6	8175.6	8175.6	8175.6	8175.6	8175.6	8175.6	8175.6	8175.6	8175.6	8175.6
2.5°	7935.8	7945.3	7979.6	7994.8	8031.0	8091.9	8122.3	8124.2	8173.7	8192.8	8208.0
5°	7374.3	7431.4	7488.5	7549.4	7659.8	7806.4	7951.0	7964.4	8124.2	8242.3	8305.1
7.5°	6890.8	6942.2	7010.7	7107.8	7263.9	7494.2	7735.9	7764.5	8067.1	8335.5	8476.4
10°	6393.9	6435.8	6534.8	6677.6	6892.7	7201.0	7526.5	7574.1	8015.7	8461.2	8708.6
12.5°	5862.9	5887.6	6007.5	6213.1	6529.1	6921.2	7349.5	7412.3	7983.4	8605.8	8982.7
15°	5459.3	5470.7	5584.9	5798.1	6159.8	6670.0	7212.5	7288.6	7991.0	8779.1	9281.6
17.5°	5356.5	5362.2	5423.1	5569.7	5889.5	6445.3	7104.0	7197.2	8013.8	8948.5	9582.3
20°	5773.4	5733.4	5670.6	5647.8	5784.8	6310.2	7039.2	7143.9	8044.3	9098.9	9852.6
22.5°	6917.4	6799.4	6538.6	6190.3	5979.0	6319.7	7056.4	7161.1	8141.4	9283.5	10164.8
25°	8615.4	8451.7	8008.1	7322.9	6664.2	6593.8	7199.1	7305.7	8329.8	9504.3	10463.7
27.5°	10547.4	10385.6	9843.1	8864.7	7741.6	7136.3	7526.5	7625.5	8609.6	9700.4	10692.1
30°	12397.7	12352.0	11712.4	10600.7	9096.9	8015.7	7949.1	8032.9	8817.1	9818.4	10872.9
32.5°	13966.2	13893.8	13379.9	12298.7	10648.3	9072.2	8445.9	8470.7	8973.2	9970.7	11109.0
35°	15420.5	15331.0	14879.9	13857.7	12239.7	10362.8	9211.2	9175.0	9314.0	10277.1	11451.6
37.5°	16690.1	16772.0	16271.3	15298.6	13667.3	11704.8	10242.9	10134.4	9846.9	10775.9	11948.4
40°	17752.3	17752.3	17491.5	16680.6	15209.2	13092.4	11409.7	11267.0	10648.3	11544.9	12578.5
42.5°	18134.9	18216.7	18313.8	17855.1	16589.2	14535.3	12709.8	12561.4	11777.1	12635.6	13374.2
45°	18157.7	18287.2	18784.0	18782.1	17836.0	15968.7	14175.6	14105.1	13223.8	14036.6	14360.2
47.5°	17836.0	17997.8	18816.3	19280.8	18824.0	17303.0	15778.3	15690.8	14923.6	15753.6	15391.9
50°	17339.2	17518.1	18469.9	19476.9	19495.9	18464.2	17466.8	17335.4	16794.8	17716.1	16457.9
52.5°	16450.3	16796.7	18159.6	19522.6	19937.5	19467.4	19073.3	19016.2	18888.7	19606.3	17306.9
55°	14548.6	14933.2	17381.1	19537.8	20346.8	20356.3	20579.0	20594.2	20851.2	21372.8	17938.8
57.5°	13650.2	13867.2	16022.0	19610.1	20954.0	21365.2	22113.3	22231.3	22629.1	23049.8	18660.3
60°	13084.8	13341.8	15351.9	19511.1	21907.7	22688.1	23535.2	23575.2	24001.6	24780.1	19636.8
62.5°	12633.7	12886.9	14929.4	19130.4	22979.4	24279.5	24924.8	24928.6	25248.4	26841.6	20746.5
65°	11520.1	11733.3	14074.7	18702.1	23687.5	25853.7	26539.0	26514.2	26775.0	29015.4	22035.2
67.5°	9909.8	10073.5	12329.1	17078.4	23421.0	27285.1	28975.5	28893.6	28577.6	30894.2	22541.5
70°	7661.7	7720.7	9717.5	14232.7	20923.6	27835.3	31330.1	31288.2	29683.6	30557.3	20685.6
71°	6333.0	6527.2	8564.0	12561.4	19250.4	27327.0	31558.5	31583.3	29405.7	29639.8	19408.3
72.5°	3677.6	3843.2	6207.4	9647.1	16343.7	25206.5	30374.6	30553.5	28107.5	26959.6	16577.8
75°	788.1	843.3	2301.4	4669.3	8990.4	17666.6	23974.9	24612.6	22908.9	18340.5	9991.6
77.5°	548.2	592.0	986.0	2118.6	2971.4	8729.6	14893.2	15612.7	13686.3	6892.7	3197.9
80°	434.0	483.5	769.0	1046.9	803.3	2815.3	6976.4	7416.1	4564.7	1538.0	538.7
82.5°	241.7	287.4	599.6	565.3	308.4	534.9	1953.0	2208.1	913.7	310.3	127.5
85°	70.4	85.7	386.4	411.2	131.3	102.8	333.1	413.1	173.2	81.9	57.1
87.5°	0.0	0.0	186.5	158.0	38.1	15.2	30.5	34.3	34.3	34.3	38.1
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°	8175.6	8175.6	8175.6	8175.6	8175.6	8175.6	8175.6	8175.6	8175.6	8175.6	8175.6
2.5°	8208.0	8221.3	8173.7	8110.9	8044.3	7962.4	7876.8	7810.2	7808.3	7775.9	7743.5
5°	8308.9	8301.3	8169.9	7970.1	7734.0	7488.5	7254.3	6989.7	6902.2	6793.7	6757.5
7.5°	8495.4	8442.1	8164.2	7726.4	7208.7	6694.7	6163.6	5628.7	5400.3	5194.7	5158.6
10°	8729.6	8628.7	8128.1	7360.9	6411.1	5463.1	4661.7	3934.6	3614.8	3369.2	3357.8
12.5°	8973.2	8819.0	8027.2	6808.9	5366.0	4033.6	3110.4	2394.6	2128.1	1956.8	1972.1
15°	9228.3	8998.0	7810.2	6064.6	4176.3	2737.3	1911.1	1490.5	1383.9	1340.1	1351.5
17.5°	9489.1	9121.7	7507.5	5168.1	3001.9	1766.5	1323.0	1204.9	1204.9	1214.4	1218.3
20°	9715.6	9188.3	7062.1	4163.0	2034.9	1286.8	1157.3	1140.2	1149.7	1165.0	1166.9
22.5°	9940.2	9192.1	6481.5	3144.6	1423.8	1126.9	1102.1	1094.5	1100.2	1117.4	1119.3
25°	10122.9	9146.4	5754.4	2236.6	1136.4	1062.2	1050.7	1046.9	1050.7	1071.7	1071.7
27.5°	10197.2	8980.8	4867.3	1572.3	1018.4	989.8	986.0	989.8	995.5	1010.8	1012.7
30°	10204.8	8691.5	3900.3	1138.3	923.2	892.8	900.4	913.7	908.0	904.2	908.0
32.5°	10223.8	8356.5	2958.1	936.5	843.3	795.7	786.2	786.2	763.3	750.0	742.4
35°	10286.7	7962.4	2145.3	841.4	761.4	706.2	670.0	628.2	584.4	561.5	555.8
37.5°	10385.6	7549.4	1536.1	778.5	689.1	626.3	557.7	483.5	420.7	403.5	403.5
40°	10566.5	7123.0	1136.4	729.1	632.0	553.9	451.1	354.1	296.9	287.4	287.4
42.5°	10852.0	6673.8	906.1	685.3	582.5	479.7	344.5	257.0	215.1	209.4	207.5
45°	11148.9	6178.8	791.9	643.4	529.2	394.0	255.1	190.4	165.6	159.9	159.9
47.5°	11445.9	5651.6	736.7	603.4	477.8	306.5	190.4	150.4	139.0	139.0	140.9
50°	11697.2	5101.4	696.7	559.6	411.2	232.2	150.4	127.5	123.7	131.3	133.2
52.5°	11760.0	4560.8	647.2	504.4	329.3	177.0	123.7	112.3	112.3	112.3	112.3
55°	11721.9	4142.1	582.5	435.9	243.7	140.9	106.6	99.0	97.1	97.1	97.1
57.5°	11851.3	3894.6	466.4	338.8	175.1	114.2	93.3	87.6	83.8	81.9	81.9
60°	12112.1	3732.8	333.1	243.7	131.3	95.2	79.9	74.2	68.5	64.7	64.7
62.5°	12458.6	3592.0	247.5	180.8	100.9	76.1	66.6	60.9	53.3	49.5	49.5
65°	12725.1	3340.7	188.4	135.2	76.1	60.9	51.4	49.5	38.1	34.3	32.4
67.5°	12317.7	2788.7	152.3	99.0	57.1	47.6	40.0	38.1	22.8	19.0	19.0
70°	10564.6	1941.6	121.8	72.3	41.9	38.1	32.4	24.7	17.1	15.2	15.2
71°	9580.4	1621.8	110.4	60.9	36.2	36.2	30.5	20.9	15.2	13.3	13.3
72.5°	7958.6	1151.6	93.3	47.6	32.4	38.1	32.4	19.0	15.2	13.3	11.4
75°	4619.9	481.6	64.7	32.4	24.7	45.7	41.9	17.1	11.4	9.5	9.5
77.5°	1389.6	177.0	36.2	20.9	19.0	40.0	47.6	15.2	5.7	1.9	1.9
80°	253.2	76.1	22.8	13.3	13.3	24.7	36.2	7.6	0.0	0.0	0.0
82.5°	89.5	38.1	13.3	7.6	5.7	11.4	17.1	0.0	0.0	0.0	0.0
85°	51.4	26.6	7.6	3.8	0.0	1.9	3.8	0.0	0.0	0.0	0.0
87.5°	34.3	7.6	0.0	0.0	0.0	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)