

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: P324023

Luminaire Tested: **GAN-SA9D-830-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44737 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

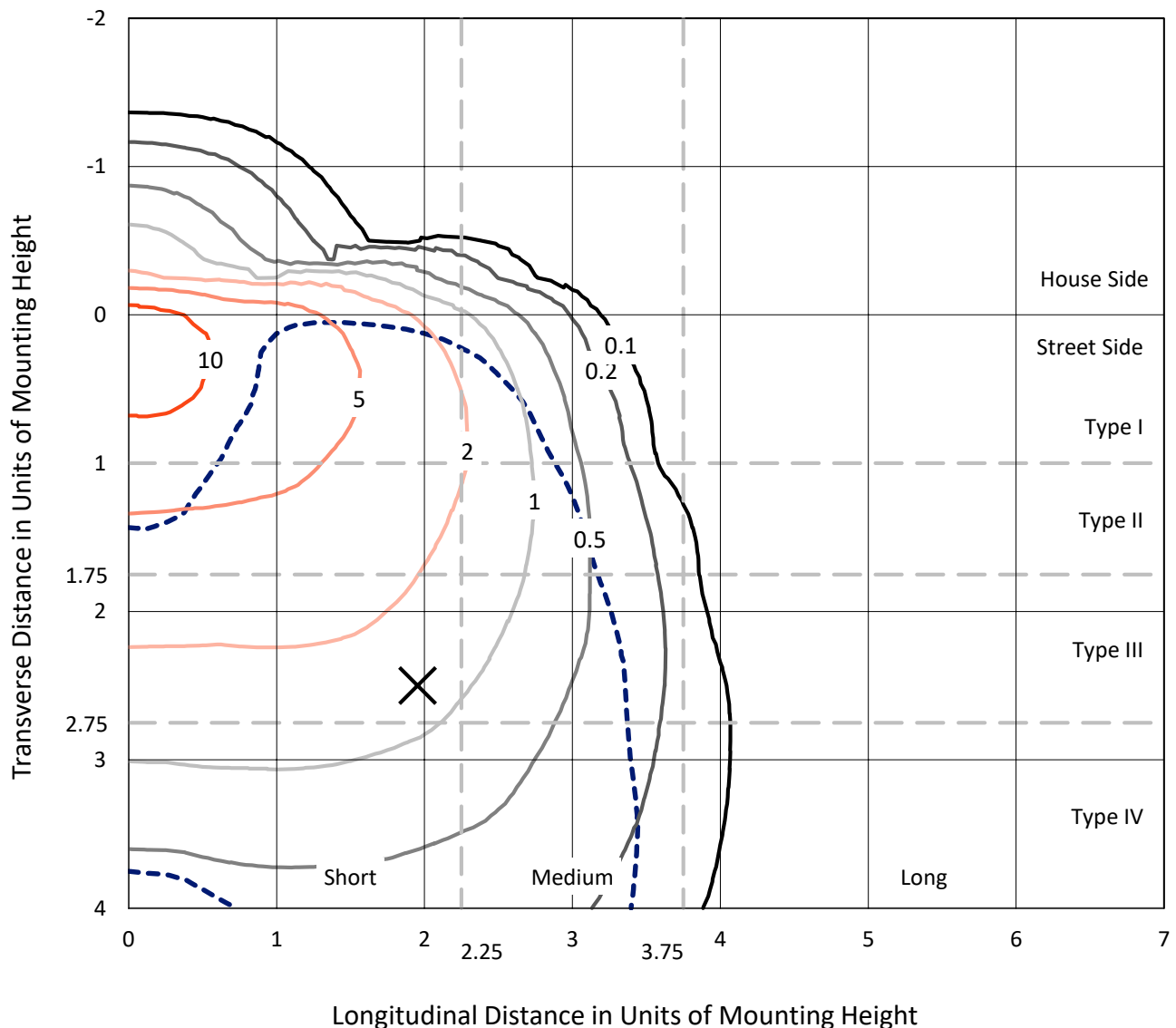
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

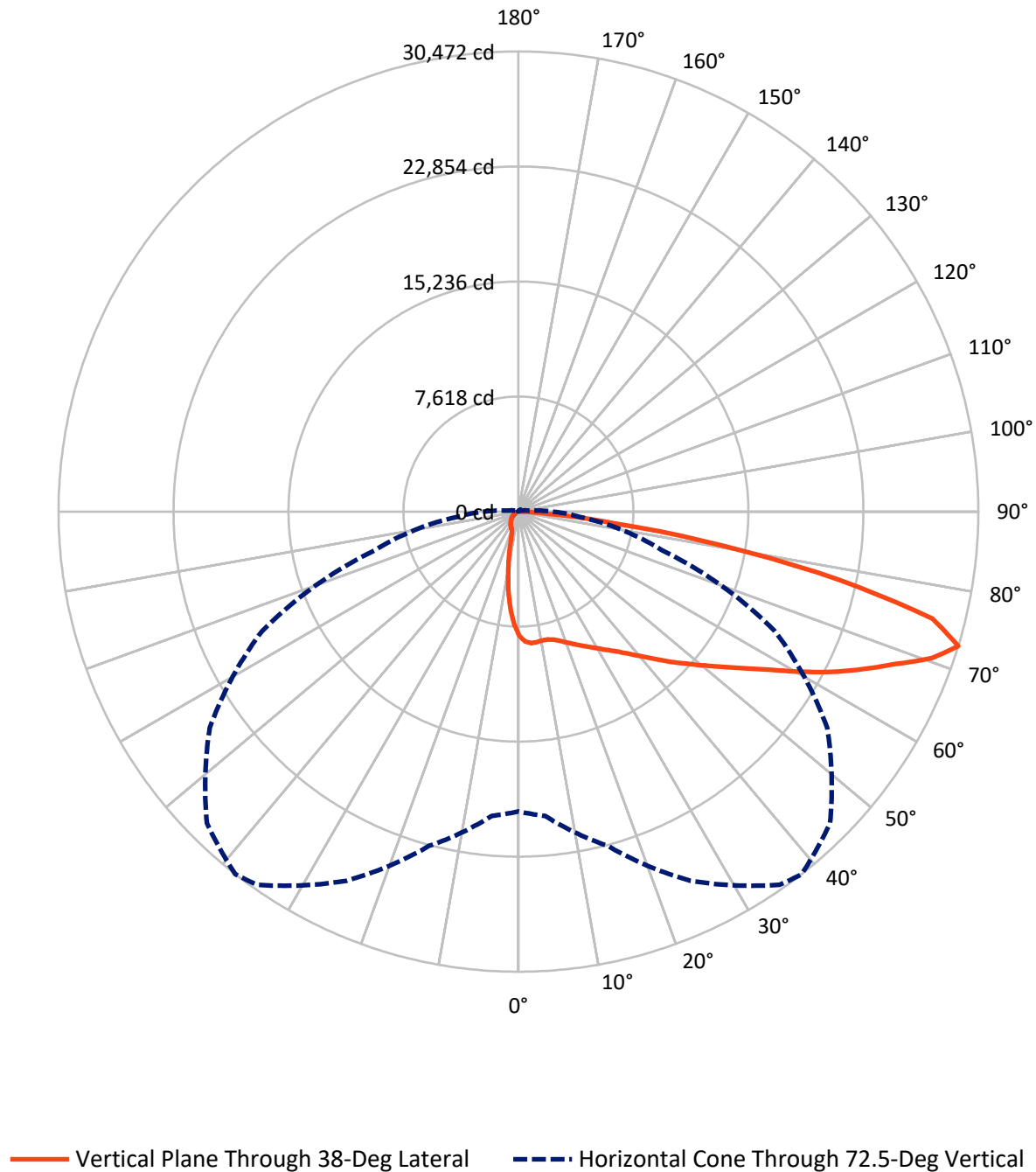
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3764.8	0.0	3764.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	40972.2	0.0	40972.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	44737.0	0.0	44737.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	701.1	1.6
10°-20°	1714.3	3.8
20°-30°	2726.6	6.1
30°-40°	4099.2	9.2
40°-50°	6253.6	14.0
50°-60°	8838.4	19.8
60°-70°	11086.4	24.8
70°-80°	8289.5	18.5
80°-90°	1027.9	2.3
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°	44737.0	100.0
0°-180°	44737.0	100.0

Coefficient of Utilization



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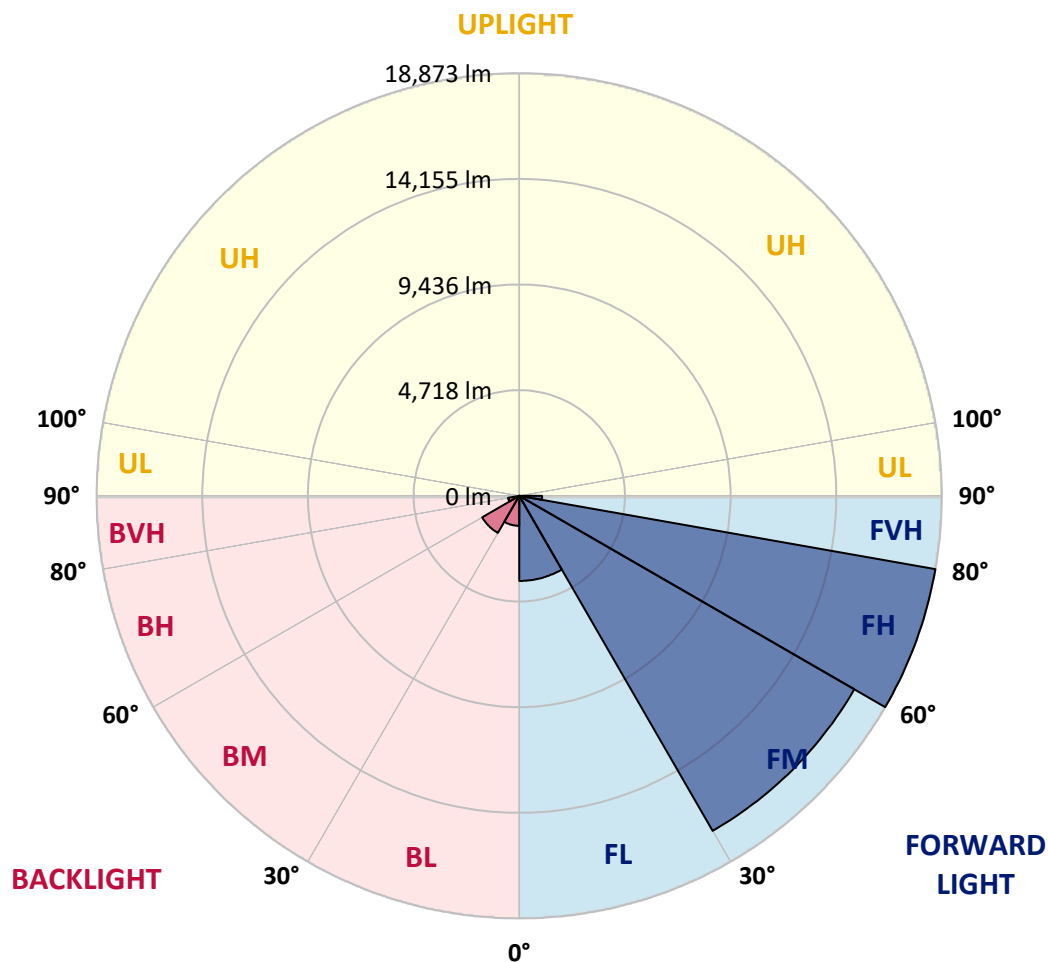
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3801.6	8.5			
FM	(30°-60°)	17279.4	38.6			
FH	(60°-80°)	18873.0	42.2			G5
FVH	(80°-90°)	1018.3	2.3			G5
BL	(0°-30°)	1340.5	3.0	B3/2500		
BM	(30°-60°)	1911.8	4.3	B2/2500		
BH	(60°-80°)	502.9	1.1	B2/1000		G2/1000
BVH	(80°-90°)	9.6	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	8227.0	8227.0	8227.0	8227.0	8227.0	8227.0	8227.0	8227.0	8227.0	8227.0	8227.0
2.5°	8732.3	8734.2	8713.8	8680.3	8637.6	8615.3	8578.1	8518.7	8455.5	8342.2	8219.6
5°	8910.7	8910.7	8884.7	8840.1	8771.4	8750.9	8680.3	8585.6	8455.5	8271.6	8065.3
7.5°	8892.1	8895.8	8860.5	8814.1	8745.4	8726.8	8641.3	8535.4	8373.8	8150.8	7887.0
10°	8795.5	8804.8	8776.9	8754.6	8691.5	8671.0	8591.1	8485.2	8323.6	8085.8	7782.9
12.5°	8697.0	8706.3	8715.6	8736.1	8697.0	8689.6	8626.4	8537.3	8383.1	8135.9	7794.1
15°	8633.9	8652.5	8719.3	8799.2	8808.5	8801.1	8760.2	8676.6	8520.5	8264.1	7874.0
17.5°	8633.9	8663.6	8803.0	8955.3	9009.2	9014.8	8979.5	8862.4	8676.6	8401.6	7948.3
20°	8706.3	8747.2	8964.6	9180.1	9269.3	9269.3	9200.6	9037.1	8819.7	8526.1	7998.5
22.5°	8892.1	8946.0	9219.1	9468.1	9562.9	9542.4	9449.5	9211.7	8968.3	8667.3	8061.6
25°	9258.1	9299.0	9583.3	9834.1	9891.7	9845.3	9728.2	9423.5	9157.8	8858.7	8176.8
27.5°	9730.1	9735.6	10029.2	10241.0	10205.7	10174.1	10027.3	9689.2	9430.9	9131.8	8375.6
30°	10248.4	10248.4	10506.7	10668.3	10560.6	10534.6	10387.8	10010.6	9780.2	9503.4	8658.0
32.5°	10750.1	10772.4	10982.3	11084.5	10963.7	10937.7	10794.7	10417.5	10244.7	10070.1	9098.4
35°	11235.0	11251.7	11450.5	11506.3	11391.1	11398.5	11296.3	10976.7	10911.7	10889.4	9761.7
37.5°	11705.1	11708.8	11911.3	11946.6	11889.0	11952.2	11961.5	11679.1	11799.8	11980.0	10696.2
40°	12134.2	12138.0	12338.6	12429.7	12528.1	12609.9	12682.3	12531.8	12931.3	13349.3	11809.1
42.5°	12478.0	12517.0	12771.5	12944.3	13204.4	13360.5	13557.4	13550.0	14278.3	14906.3	13154.3
45°	12780.8	12847.7	13202.6	13505.4	13951.3	14200.3	14508.7	14750.2	15794.4	16639.8	14516.1
47.5°	13180.3	13243.4	13648.5	14144.5	14739.1	15066.1	15577.0	16099.1	17461.0	18341.6	15846.4
50°	13743.2	13715.4	14114.8	14826.4	15590.0	16019.2	16747.5	17529.7	19114.6	19824.3	16628.6
52.5°	14343.3	14332.2	14627.6	15567.7	16593.3	17095.0	18057.4	19008.7	20695.7	20846.2	16987.2
55°	15086.5	15006.6	15255.6	16413.1	17784.3	18323.1	19456.4	20472.7	21955.4	21422.1	17167.4
57.5°	15865.0	15733.1	15970.9	17355.1	19127.6	19764.8	21005.9	21899.6	22793.3	21816.0	17165.6
60°	16669.5	16513.4	16795.8	18533.0	20796.0	21533.6	22685.5	22863.9	23575.5	22014.8	17039.2
62.5°	17342.1	17249.2	17669.1	19792.7	22659.5	23384.1	23954.5	23740.8	24235.1	22169.0	16743.8
65°	18053.7	18059.2	18737.4	21262.3	24640.1	25128.7	25177.0	24877.9	24786.9	22137.4	15744.2
67.5°	19016.1	19105.3	20236.8	23257.8	26566.8	26943.9	26940.2	26109.7	25190.0	20881.5	13527.7
70°	20034.2	20244.2	21964.6	25541.2	28670.0	29052.7	28855.8	26893.8	23718.5	16885.0	9574.0
72.5°	19863.3	20227.5	22925.2	26981.1	30180.5	30472.2	29192.1	24967.1	18746.7	9813.7	4076.3
75°	15324.3	15746.1	21020.8	25554.2	28595.7	28333.7	25082.3	19428.5	10244.7	2738.6	917.8
77.5°	8095.1	8319.9	13886.3	19467.6	22297.2	21749.1	17669.1	10777.9	3123.2	678.2	412.5
80°	4239.8	4291.9	6051.3	11045.5	13761.8	13765.5	10471.4	4734.0	1287.6	347.4	276.8
82.5°	2270.4	2315.0	3197.5	5103.8	7210.7	6536.3	4009.4	2604.8	748.8	196.9	265.7
85°	546.2	555.5	1813.4	2331.7	2835.2	2025.2	1190.9	2186.8	202.5	115.2	215.5
87.5°	209.9	213.7	672.6	1008.9	722.7	468.2	557.4	815.6	26.0	44.6	33.4
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°	8227.0	8227.0	8227.0	8227.0	8227.0	8227.0	8227.0	8227.0	8227.0	8227.0	8227.0
2.5°	8145.2	8096.9	7978.0	7827.5	7693.8	7597.1	7452.2	7357.5	7294.3	7292.4	7268.3
5°	7939.0	7840.5	7584.1	7279.4	7002.6	6753.6	6460.1	6227.8	6055.0	6027.2	5967.7
7.5°	7717.9	7556.3	7162.4	6686.7	6222.3	5750.3	5202.3	4862.2	4570.5	4431.2	4416.3
10°	7582.3	7355.6	6796.4	6108.9	5380.6	4613.3	3896.1	3400.0	3041.5	2939.3	2863.1
12.5°	7554.4	7255.3	6514.0	5566.4	4526.0	3511.5	2718.2	2190.5	1904.4	1813.4	1789.2
15°	7582.3	7208.8	6276.1	5029.5	3660.2	2491.5	1824.5	1517.9	1410.2	1384.2	1382.3
17.5°	7599.0	7153.1	6006.7	4433.1	2820.4	1779.9	1397.2	1308.0	1291.3	1289.4	1293.1
20°	7597.1	7067.6	5685.3	3767.9	2097.6	1399.0	1263.4	1244.8	1241.1	1243.0	1241.1
22.5°	7584.1	6967.3	5332.3	3082.3	1584.8	1250.4	1205.8	1194.7	1192.8	1192.8	1192.8
25°	7608.3	6887.4	4944.0	2426.5	1306.1	1181.7	1153.8	1144.5	1142.6	1142.6	1138.9
27.5°	7695.6	6842.8	4518.5	1867.2	1179.8	1120.3	1098.0	1096.2	1090.6	1088.8	1092.5
30°	7836.8	6842.8	4052.2	1452.9	1103.6	1057.2	1040.5	1036.7	1034.9	1033.0	1034.9
32.5°	8085.8	6894.8	3543.1	1207.7	1031.2	986.6	975.4	981.0	975.4	975.4	975.4
35°	8535.4	7050.9	3009.9	1053.5	955.0	917.8	906.7	914.1	910.4	910.4	908.5
37.5°	9191.3	7340.7	2472.9	960.6	888.1	849.1	834.2	845.4	841.6	841.6	839.8
40°	9990.2	7762.5	1962.0	890.0	823.1	782.2	769.2	774.8	765.5	765.5	769.2
42.5°	10976.7	8297.6	1516.1	821.2	758.0	719.0	711.6	706.0	689.3	680.0	681.9
45°	12072.9	8855.0	1181.7	754.3	696.7	665.1	654.0	639.1	611.3	592.7	594.5
47.5°	13052.1	9284.2	960.6	689.3	641.0	616.8	600.1	572.2	531.4	509.1	510.9
50°	13566.7	9349.2	817.5	624.3	589.0	564.8	540.7	497.9	449.6	425.5	423.6
52.5°	13698.6	9044.5	711.6	564.8	536.9	509.1	477.5	419.9	366.0	340.0	336.3
55°	13746.9	8580.0	616.8	509.1	481.2	449.6	408.7	343.7	293.6	267.5	265.7
57.5°	13587.2	7887.0	542.5	458.9	425.5	386.5	336.3	275.0	226.7	206.2	206.2
60°	13232.3	6948.7	484.9	405.0	367.9	323.3	271.3	213.7	169.1	152.4	152.4
62.5°	12524.4	5733.6	431.0	349.3	314.0	267.5	219.2	161.6	118.9	109.6	111.5
65°	11188.6	4349.5	377.2	299.1	267.5	221.1	170.9	115.2	79.9	79.9	83.6
67.5°	9124.4	3021.0	321.4	254.5	230.4	180.2	130.1	79.9	55.7	63.2	70.6
70°	6040.2	1694.4	275.0	209.9	196.9	143.1	96.6	53.9	44.6	59.5	72.5
72.5°	2279.7	659.6	230.4	169.1	170.9	109.6	68.7	40.9	40.9	65.0	85.5
75°	635.4	323.3	165.4	124.5	133.8	79.9	50.2	35.3	39.0	74.3	100.3
77.5°	373.4	237.8	107.8	72.5	91.0	55.7	33.4	27.9	33.4	63.2	96.6
80°	301.0	126.3	63.2	37.2	50.2	31.6	22.3	16.7	9.3	24.2	50.2
82.5°	301.0	76.2	29.7	26.0	26.0	16.7	11.1	7.4	1.9	0.0	13.0
85°	202.5	31.6	18.6	16.7	13.0	5.6	3.7	1.9	0.0	0.0	0.0
87.5°	33.4	13.0	7.4	3.7	1.9	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)