

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: P456966

Luminaire Tested: **GALN-SA8B-730-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33503 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

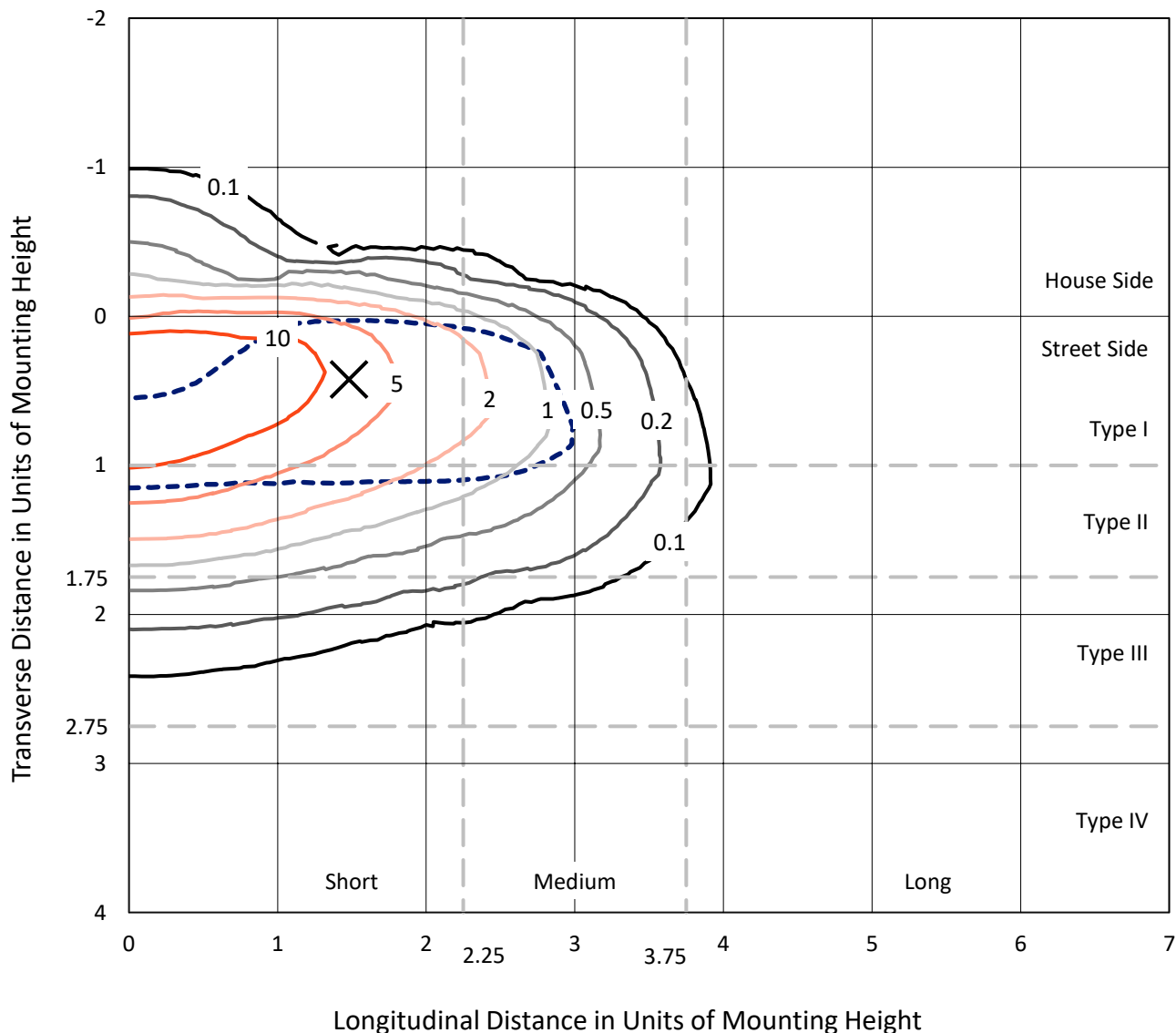
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456966
 CATALOG NUMBER: GALN-SA8B-730-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

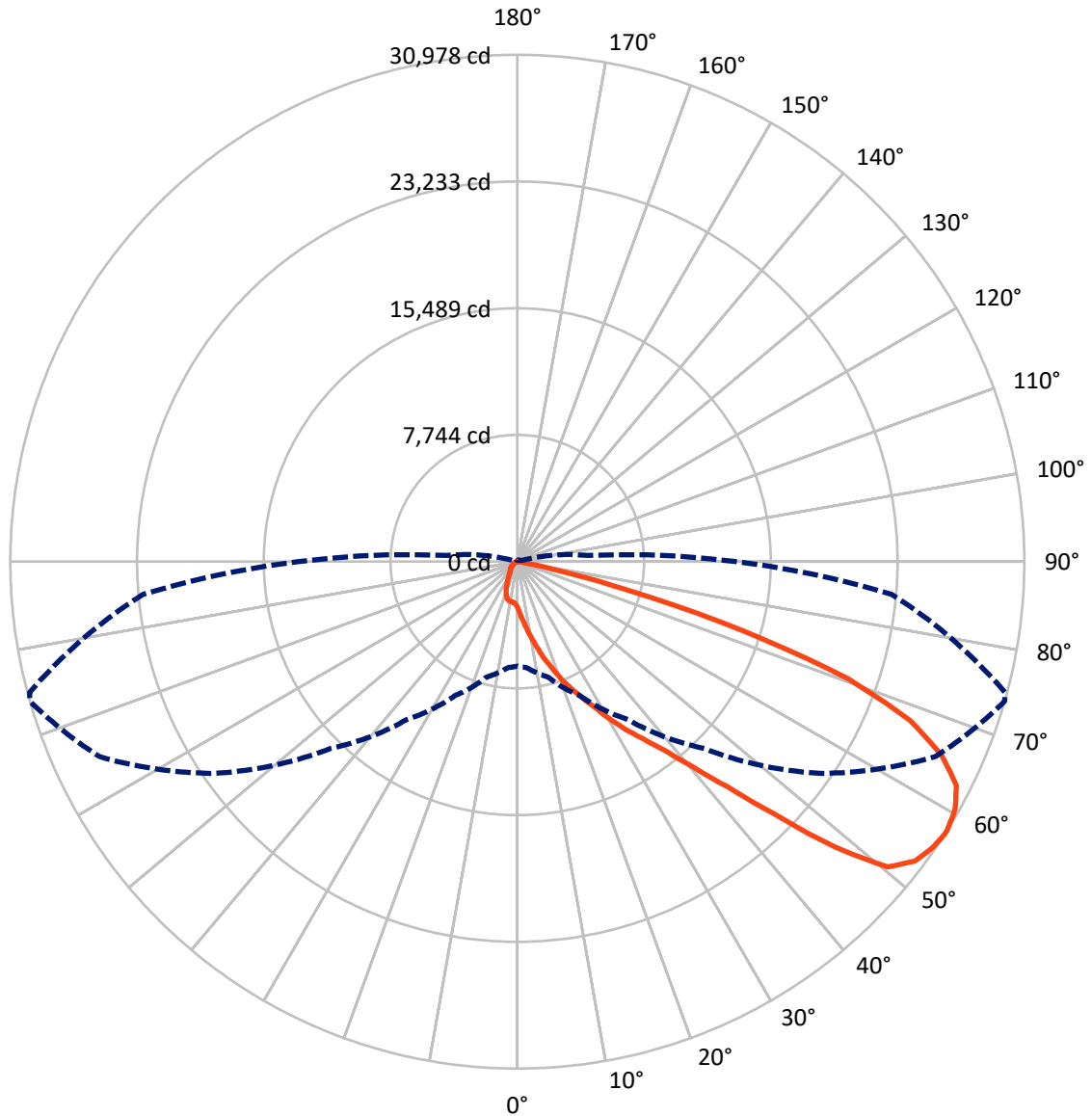
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type II - Short - N/A

REPORT NUMBER: P456966
CATALOG NUMBER: GALN-SA8B-730-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P456966

CATALOG NUMBER: GALN-SA8B-730-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1932.3	0.0	1932.3
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	31570.7	0.0	31570.7
	% Fixture	94.2	0.0	94.2
Total	Lumens	33503.0	0.0	33503.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.7	1.0
10°-20°	1334.9	4.0
20°-30°	2856.4	8.5
30°-40°	5250.0	15.7
40°-50°	8048.3	24.0
50°-60°	8514.0	25.4
60°-70°	5559.9	16.6
70°-80°	1519.2	4.5
80°-90°	81.8	0.2
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°	33503.0	100.0
0°-180°	33503.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456966

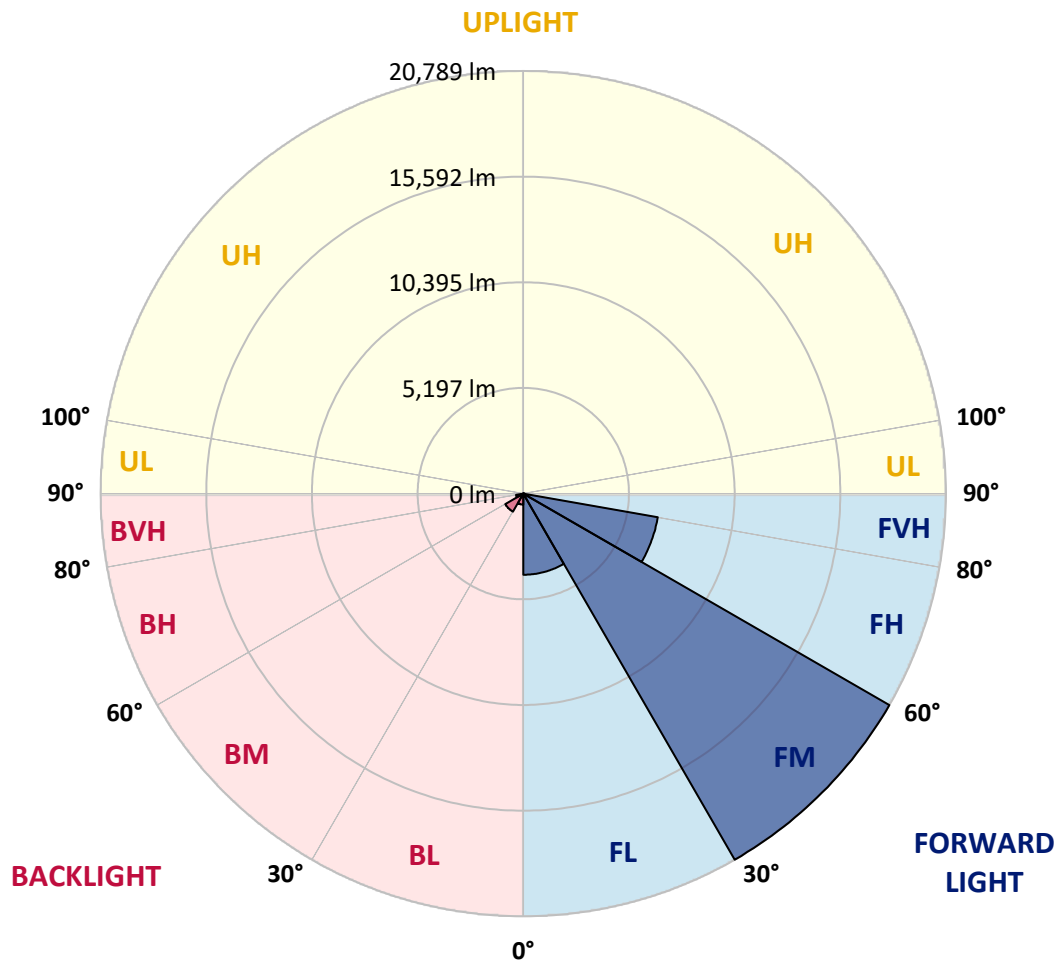
CATALOG NUMBER: GALN-SA8B-730-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3990.2	11.9			
FM	(30°-60°)	20789.2	62.1			
FH	(60°-80°)	6716.2	20.0			G3/7500
FVH	(80°-90°)	75.0	0.2			G1/100
BL	(0°-30°)	539.8	1.6	B2/1000		
BM	(30°-60°)	1023.0	3.1	B2/2500		
BH	(60°-80°)	362.8	1.1	B1/500		G1/500
BVH	(80°-90°)	6.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





REPORT NUMBER: P456966

CATALOG NUMBER: GALN-SA8B-730-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2805.8	2805.8	2805.8	2805.8	2805.8	2805.8	2805.8	2805.8	2805.8	2805.8	2805.8
2.5°	4105.8	4068.8	3994.8	3969.3	3860.6	3691.8	3543.7	3344.8	3187.5	3171.3	2981.6
5°	5498.3	5415.0	5380.4	5213.8	4952.4	4707.2	4286.2	3967.0	3599.2	3571.5	3189.8
7.5°	6839.9	6724.3	6689.6	6532.3	6227.0	5840.7	5294.8	4714.2	4131.3	4078.1	3469.7
10°	7811.5	7827.6	7765.2	7661.1	7413.6	7020.4	6347.2	5553.8	4723.4	4656.3	3784.3
12.5°	8507.7	8505.4	8517.0	8514.6	8382.8	8084.4	7376.6	6462.9	5375.7	5243.9	4145.1
15°	8961.1	8968.0	9002.7	9123.0	9136.9	8951.8	8362.0	7332.6	6132.1	5967.9	4536.1
17.5°	9419.1	9467.7	9523.2	9636.5	9738.3	9664.3	9247.9	8239.4	6816.8	6694.2	4954.7
20°	10175.5	10242.6	10210.2	10279.6	10332.8	10339.7	10018.2	9076.7	7647.2	7441.4	5433.6
22.5°	11385.2	11382.9	11299.7	11174.8	11070.7	11066.0	10774.6	9937.2	8401.3	8202.4	5914.7
25°	12914.2	12921.2	12759.3	12403.0	12144.0	11827.1	11491.7	10691.3	9208.6	8963.4	6421.3
27.5°	14667.6	14623.6	14378.4	13888.1	13374.5	12833.3	12349.8	11568.0	10064.4	9860.9	7001.9
30°	16242.8	16226.6	15939.8	15340.7	14665.3	14121.7	13420.8	12666.7	11172.4	10922.6	7651.9
32.5°	17709.4	17732.5	17334.6	16714.7	16062.4	15435.5	14695.3	13716.9	12259.6	11905.7	8359.7
35°	18854.4	18877.5	18465.8	17949.9	17279.1	16758.7	16053.2	14836.4	13332.9	13034.5	9173.9
37.5°	19465.0	19495.1	19256.8	18868.2	18449.6	18188.2	17531.2	16277.5	14637.5	14457.1	10136.2
40°	19580.7	19615.4	19511.3	19407.2	19384.1	19571.4	19379.4	17975.4	16446.4	16164.2	11570.3
42.5°	19233.7	19280.0	19326.2	19557.6	20029.4	20716.4	21384.9	20279.3	18775.7	18396.4	13323.7
45°	18322.3	18317.7	18500.5	19099.6	20156.7	21623.2	23480.6	23163.7	21949.3	21498.3	15801.0
47.5°	16763.3	16740.2	17135.7	17989.2	19636.2	21789.7	25190.0	26665.8	25999.6	25583.3	18463.4
50°	14387.7	14501.0	15123.3	16314.5	18343.2	21285.5	25717.4	28962.8	29323.6	28881.8	20614.7
52.5°	11605.0	11600.4	12576.5	14193.4	16427.9	20175.2	25349.6	29379.1	30403.8	30066.1	21674.1
55°	8588.7	8648.8	9664.3	11295.0	13941.3	18148.9	24149.1	28951.2	30815.6	30577.3	22372.6
57°	6388.9	6495.3	7309.5	9035.1	11776.2	16143.4	22550.8	28185.5	30977.5	30848.0	22953.2
57.5°	5963.3	5967.9	6761.3	8329.6	11142.4	15373.1	22092.8	27866.3	30972.9	30901.2	23048.1
60°	3670.9	3786.6	4334.8	5630.2	8156.1	11998.2	19023.2	26032.0	30732.3	30836.4	23452.9
62.5°	2197.5	2246.1	2602.3	3393.4	5257.8	8757.5	15567.4	23684.2	30105.5	30422.3	23425.1
65°	1413.3	1424.9	1586.8	2054.1	3287.0	5919.3	11995.9	20582.3	28483.9	29066.9	22509.1
67.5°	1091.8	1110.3	1175.1	1348.6	1906.0	3687.1	8484.6	17272.2	25860.8	26612.6	20288.5
70°	969.2	978.5	1001.6	1057.1	1260.7	2081.8	5278.6	13492.5	21445.1	21657.9	15877.4
72.5°	791.1	816.5	888.2	906.7	999.3	1300.0	2937.7	9055.9	14408.5	14461.7	8882.4
75°	613.0	617.6	724.0	777.2	842.0	895.2	1311.5	4566.1	6920.9	6550.8	3423.4
77.5°	458.0	478.8	527.4	594.5	687.0	640.7	587.5	1721.0	2148.9	2109.6	994.6
80°	293.8	305.3	367.8	446.4	534.3	418.7	330.8	504.3	471.9	485.8	238.3
82.5°	148.0	150.4	235.9	363.2	340.0	210.5	208.2	205.9	175.8	173.5	111.0
85°	16.2	34.7	152.7	208.2	152.7	69.4	97.2	94.8	92.5	94.8	64.8
87.5°	2.3	2.3	25.4	30.1	20.8	23.1	27.8	30.1	37.0	34.7	27.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P456966

CATALOG NUMBER: GALN-SA8B-730-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2805.8	2805.8	2805.8	2805.8	2805.8	2805.8	2805.8	2805.8	2805.8	2805.8	2805.8
2.5°	2889.1	2796.6	2625.4	2461.2	2338.6	2259.9	2158.2	2121.1	2067.9	2061.0	2035.6
5°	3014.0	2838.2	2539.8	2303.9	2114.2	1970.8	1845.9	1741.8	1658.5	1640.0	1649.3
7.5°	3192.1	2930.7	2514.4	2192.9	1929.2	1684.0	1485.0	1362.4	1274.5	1242.2	1246.8
10°	3393.4	3053.3	2509.8	2074.9	1672.4	1371.7	1154.3	1045.5	994.6	976.1	955.3
12.5°	3631.6	3194.4	2498.2	1892.1	1390.2	1094.1	939.1	874.4	825.8	811.9	811.9
15°	3899.9	3344.8	2442.7	1665.5	1128.8	904.4	800.3	749.5	733.3	719.4	719.4
17.5°	4179.8	3492.8	2327.0	1385.6	936.8	774.9	710.1	680.1	656.9	640.7	640.7
20°	4499.0	3638.6	2142.0	1138.1	791.1	691.6	640.7	606.0	587.5	573.7	569.0
22.5°	4802.1	3756.5	1906.0	934.5	689.3	622.2	576.0	539.0	520.5	513.5	513.5
25°	5116.7	3828.2	1621.5	772.6	629.2	564.4	513.5	483.4	467.3	462.6	460.3
27.5°	5422.0	3869.9	1371.7	675.4	573.7	511.2	462.6	439.5	423.3	418.7	421.0
30°	5792.1	3876.8	1128.8	606.0	525.1	460.3	416.4	395.5	386.3	381.7	379.4
32.5°	6166.8	3867.6	948.4	564.4	478.8	416.4	379.4	363.2	356.2	349.3	349.3
35°	6587.8	3819.0	807.3	522.8	434.9	379.4	347.0	333.1	323.8	316.9	314.6
37.5°	7110.6	3793.5	726.3	476.5	395.5	344.7	314.6	300.7	293.8	284.5	282.2
40°	7934.1	3906.9	700.9	434.9	356.2	312.3	284.5	268.3	259.1	249.8	247.5
42.5°	8961.1	4105.8	659.2	393.2	321.5	282.2	254.4	235.9	219.7	208.2	203.6
45°	10291.1	4367.2	594.5	349.3	291.5	249.8	224.4	201.2	180.4	171.2	168.9
47.5°	11686.0	4619.3	536.6	314.6	259.1	222.1	194.3	168.9	150.4	143.4	141.1
50°	12541.8	4670.2	499.6	275.3	226.7	192.0	164.2	141.1	129.5	122.6	122.6
52.5°	12932.7	4589.3	448.7	240.6	196.6	168.9	141.1	122.6	115.7	111.0	108.7
55°	13205.7	4464.4	381.7	208.2	168.9	143.4	124.9	111.0	101.8	97.2	94.8
57°	13365.3	4295.5	330.8	182.7	145.7	124.9	111.0	99.5	90.2	81.0	81.0
57.5°	13372.2	4230.7	316.9	180.4	138.8	120.3	108.7	97.2	85.6	76.3	74.0
60°	13166.4	3786.6	254.4	152.7	111.0	101.8	90.2	76.3	60.1	50.9	48.6
62.5°	12504.8	3222.2	210.5	129.5	90.2	78.6	64.8	57.8	41.6	30.1	30.1
65°	11503.2	2613.8	180.4	104.1	74.0	57.8	43.9	41.6	25.4	13.9	11.6
67.5°	10055.2	2035.6	152.7	85.6	62.5	41.6	30.1	27.8	13.9	4.6	0.0
70°	7661.1	1387.9	127.2	69.4	46.3	30.1	20.8	16.2	9.3	2.3	0.0
72.5°	4415.8	763.3	106.4	53.2	34.7	23.1	16.2	9.3	9.3	0.0	0.0
75°	1577.6	328.5	81.0	39.3	27.8	18.5	11.6	4.6	6.9	2.3	0.0
77.5°	502.0	175.8	53.2	30.1	23.1	13.9	9.3	4.6	4.6	2.3	0.0
80°	148.0	92.5	32.4	25.4	16.2	11.6	6.9	2.3	4.6	2.3	0.0
82.5°	81.0	46.3	25.4	18.5	16.2	9.3	6.9	2.3	2.3	2.3	0.0
85°	41.6	27.8	20.8	18.5	16.2	9.3	6.9	2.3	0.0	2.3	2.3
87.5°	23.1	20.8	20.8	18.5	16.2	11.6	6.9	2.3	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)