

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: P382688

Luminaire Tested: **GLEON-SA0D-735-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382688
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: McGRAW-EDISON
Catalog Number: GLEON-SA0D-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH 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: 59257.6 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

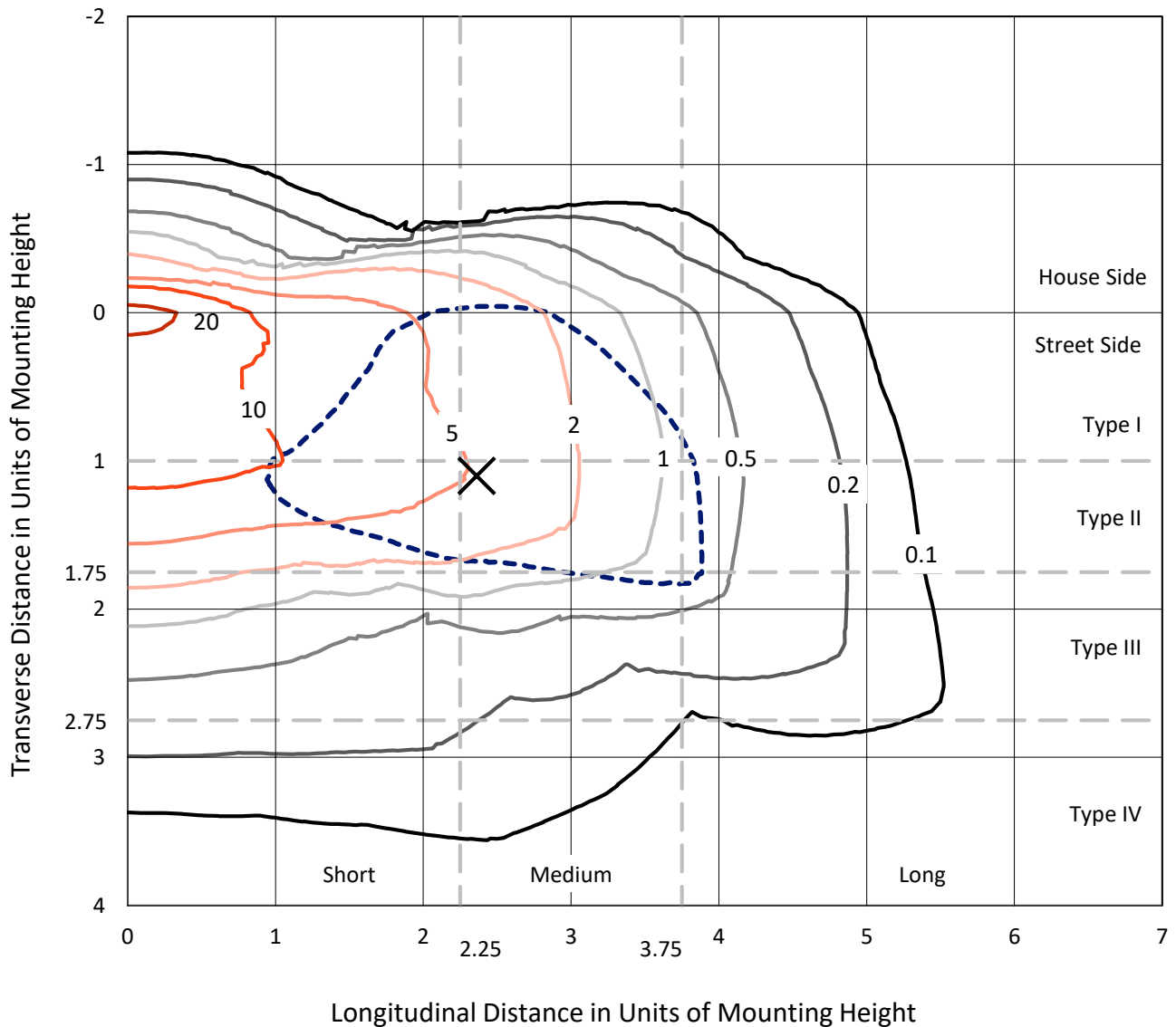
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P382688
 CATALOG NUMBER: GLEON-SA0D-735-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

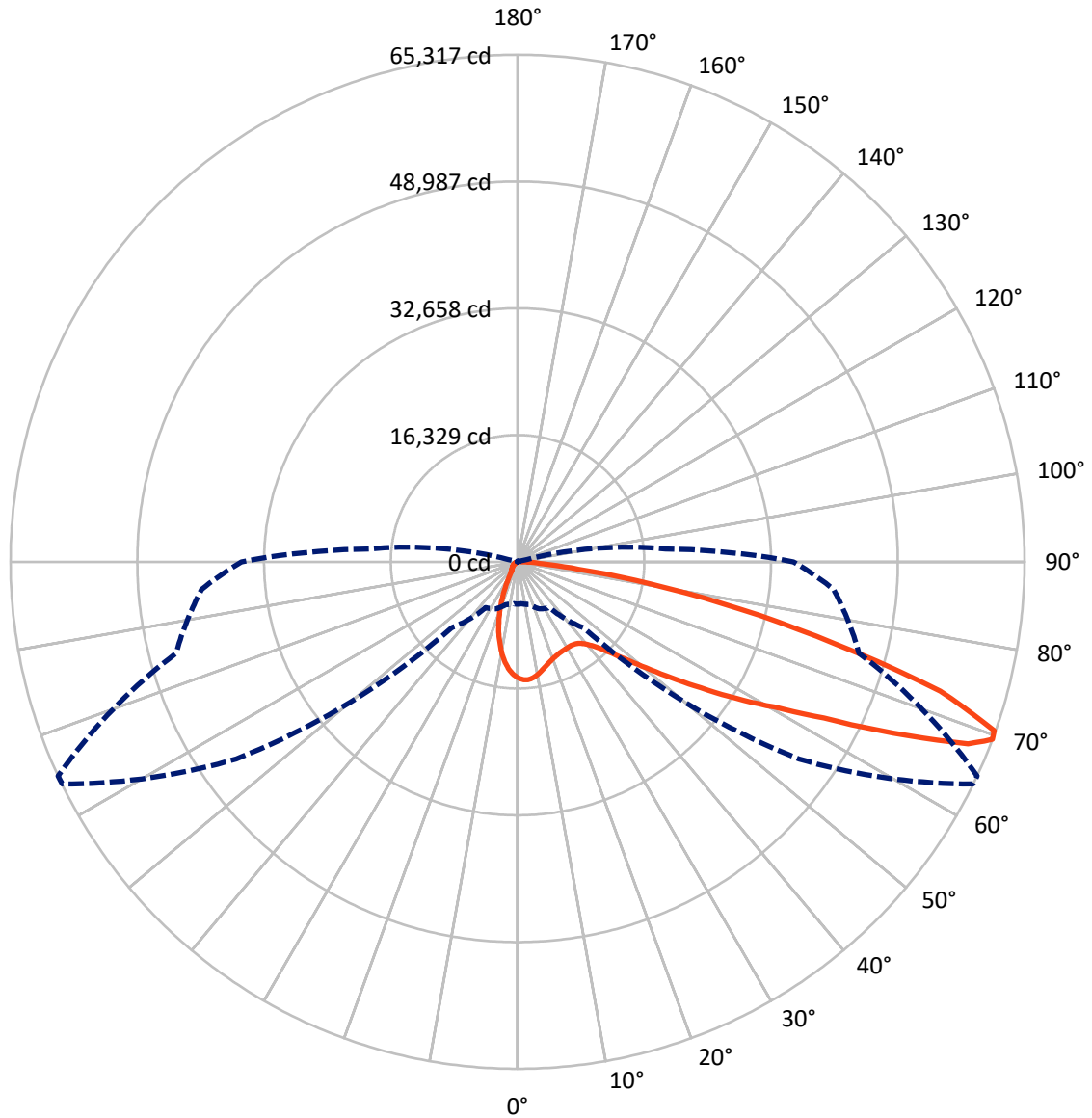
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24 fc
 Type III - Medium - N/A

REPORT NUMBER: P382688
CATALOG NUMBER: GLEON-SA0D-735-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P382688
 CATALOG NUMBER: GLEON-SA0D-735-U-SL2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6985.1	0.0	6985.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	52272.5	0.0	52272.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	59257.6	0.0	59257.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1252.2	2.1
10°-20°	2741.1	4.6
20°-30°	3796.5	6.4
30°-40°	5293.5	8.9
40°-50°	8227.9	13.9
50°-60°	13208.9	22.3
60°-70°	14941.5	25.2
70°-80°	8775.3	14.8
80°-90°	1020.8	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°	59257.6	100.0
0°-180°	59257.6	100.0

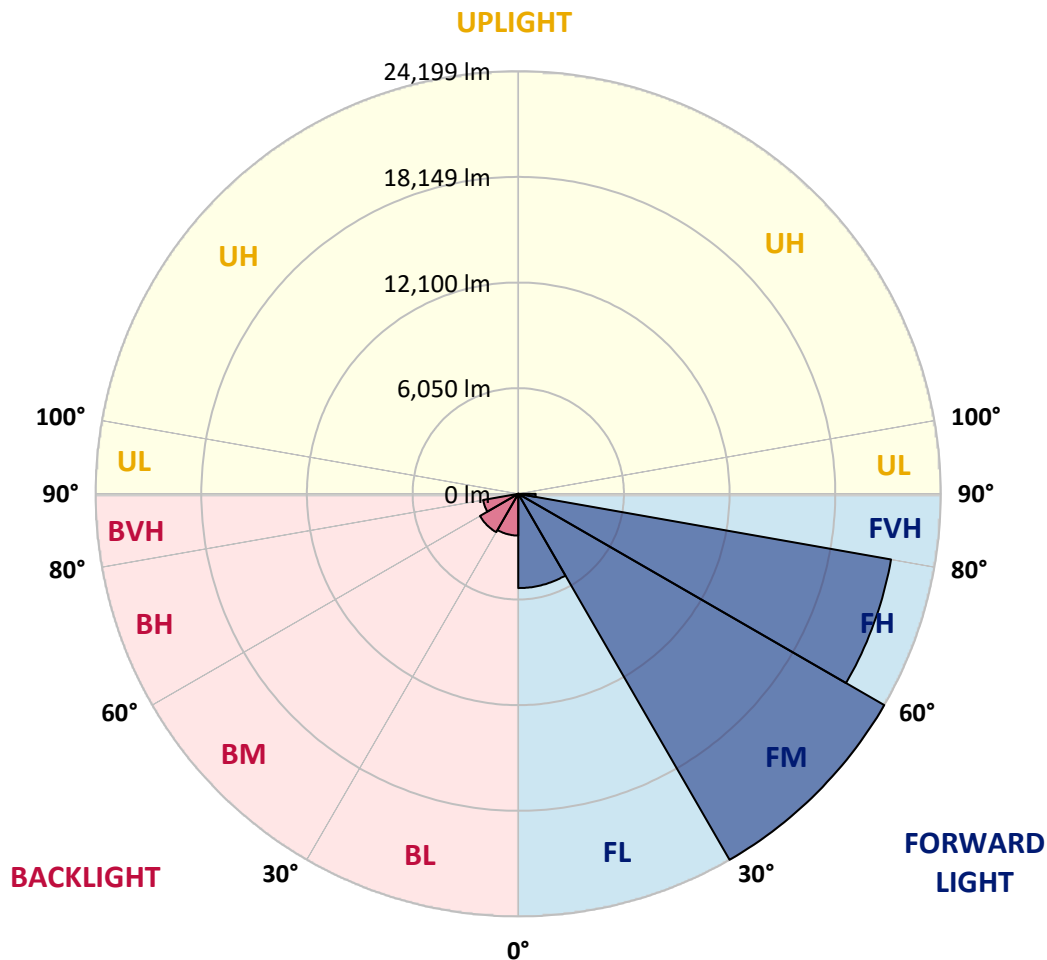


REPORT NUMBER: P382688
 CATALOG NUMBER: GLEON-SA0D-735-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5399.8	9.1			
FM (30°-60°)	24199.1	40.8			
FH (60°-80°)	21675.8	36.6			G5
FVH (80°-90°)	997.8	1.7			G5
BL (0°-30°)	2390.0	4.0	B3/2500		
BM (30°-60°)	2531.2	4.3	B3/5000		
BH (60°-80°)	2040.9	3.4	B3/2500		G3/2500
BVH (80°-90°)	23.0	0.0			G1/100
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





REPORT NUMBER: P382688

CATALOG NUMBER: GLEON-SA0D-735-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	14974.5	14974.5	14974.5	14974.5	14974.5	14974.5	14974.5	14974.5	14974.5	14974.5	14974.5
2.5°	15107.4	15069.7	15099.8	15165.0	15197.6	15197.6	15222.7	15192.6	15202.7	15129.9	15024.7
5°	14162.1	14104.4	14187.2	14370.2	14595.9	14789.0	15074.8	15225.2	15240.3	15242.8	15119.9
7.5°	13144.0	13091.4	13214.3	13429.9	13720.8	14079.3	14578.3	15014.6	15039.6	15275.4	15185.2
10°	12316.6	12279.0	12421.9	12652.6	12993.6	13394.8	14006.7	14613.5	14686.1	15207.7	15175.1
12.5°	11659.6	11629.5	11765.0	12030.8	12379.2	12823.1	13462.5	14167.1	14264.9	15054.7	15125.0
15°	11180.7	11175.7	11288.6	11544.3	11930.4	12344.2	12998.6	13753.4	13866.2	14889.2	15117.4
17.5°	10929.9	10937.5	11020.2	11238.4	11569.4	11980.6	12607.5	13404.9	13527.7	14741.3	15155.1
20°	10904.9	10912.4	10957.6	11080.4	11348.8	11712.3	12289.0	13111.4	13239.3	14631.0	15215.2
22.5°	11125.6	11120.5	11133.1	11120.5	11271.0	11546.8	12078.4	12885.8	13033.7	14558.2	15262.8
25°	11549.3	11541.8	11536.8	11444.0	11343.7	11491.7	11990.6	12757.9	12898.3	14505.6	15290.4
27.5°	12138.5	12133.6	12126.0	11973.1	11672.2	11579.4	12000.7	12710.3	12828.2	14463.0	15285.4
30°	12913.4	12948.5	12938.5	12725.3	12256.5	11847.7	12106.0	12685.2	12788.0	14380.2	15232.8
32.5°	13823.6	13893.8	13949.0	13720.8	13134.1	12379.2	12349.2	12712.7	12788.0	14317.5	15137.5
35°	14768.8	14859.1	15062.3	14982.0	14209.7	13179.2	12768.0	12878.3	12941.0	14352.6	15092.4
37.5°	15699.2	15807.0	16248.3	16481.5	15618.9	14237.3	13419.9	13286.9	13319.5	14565.8	15142.5
40°	16779.9	16942.9	17612.3	17988.5	17301.4	15654.0	14395.3	13989.1	14001.6	15034.7	15375.7
42.5°	18199.1	18367.0	19091.7	19681.0	19197.1	17444.3	15719.2	15062.3	15049.7	15912.3	15924.8
45°	19929.2	20104.8	20854.5	21508.9	21290.8	19565.7	17414.3	16629.4	16614.3	17296.4	16965.4
47.5°	21890.1	22063.1	22732.6	23407.1	23642.8	22043.0	19573.2	18768.3	18733.1	19219.6	18572.7
50°	23572.5	23685.3	24302.2	25209.9	26273.1	25087.0	22258.7	21483.8	21446.3	21774.7	20932.2
52.5°	24184.4	24249.6	24876.4	26147.7	28800.6	29209.3	25786.6	24788.7	24761.1	24904.0	24074.1
55°	22945.7	23063.5	23833.4	25718.9	30169.7	33868.2	30239.9	28880.9	28672.7	28364.3	27358.8
57.5°	19570.7	19758.7	20586.2	23093.6	29530.2	37564.1	36784.3	33509.5	33203.7	31318.1	30029.3
60°	14663.6	14894.2	15581.3	18286.8	26117.6	38880.6	43935.6	38667.4	37977.9	33670.0	32484.0
62.5°	10062.4	10177.7	10644.1	12406.9	19234.7	36724.1	49918.4	45575.4	44316.7	36227.7	35139.5
65°	7685.4	7725.4	7916.0	8522.8	11454.0	29831.1	52297.9	54690.0	53168.0	39286.7	37895.1
67.5°	6193.4	6160.8	6424.0	7291.7	7670.3	18199.1	49522.2	63313.2	62601.0	43376.4	40668.4
69°	5461.2	5416.1	5684.4	6692.4	7203.9	12030.8	44271.5	65271.5	65316.6	45535.4	40858.9
70°	4914.6	4944.7	5210.5	6336.3	7045.9	9443.1	39256.6	64772.5	65128.6	46342.7	39715.5
72.5°	3282.2	3362.5	3896.6	5260.6	6775.1	7146.3	23702.9	55582.7	56951.7	44524.8	34073.8
75°	1850.5	1910.7	2545.1	3966.8	6384.0	6805.2	12519.7	40949.2	42273.2	37233.1	26275.6
77.5°	907.7	940.3	1439.2	2560.1	5338.3	6484.2	7101.1	27815.2	29327.2	24302.2	14861.6
80°	383.6	401.2	719.6	1579.7	3816.4	6188.4	5273.2	17118.4	17306.4	9520.8	3959.3
82.5°	147.9	153.0	303.4	985.4	2424.7	4824.3	4410.6	8116.6	7921.0	1792.9	902.7
85°	17.5	20.0	110.3	591.7	1349.0	2482.4	3583.1	3497.9	3237.1	356.0	463.9
87.5°	0.0	0.0	7.5	180.5	401.2	1163.5	1863.0	1451.8	1308.9	115.3	240.7
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: P382688

CATALOG NUMBER: GLEON-SA0D-735-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14974.5	14974.5	14974.5	14974.5	14974.5	14974.5	14974.5	14974.5	14974.5	14974.5	14974.5
2.5°	14936.9	14911.8	14776.4	14580.9	14395.3	14164.6	13944.0	13811.0	13705.8	13635.5	13718.2
5°	14977.0	14866.7	14455.5	13928.9	13412.3	12830.7	12289.0	11830.2	11649.7	11449.0	11539.3
7.5°	14964.5	14756.4	14016.6	13078.8	12131.1	11150.6	10222.9	9508.2	9137.2	8773.6	8866.4
10°	14901.8	14550.8	13429.9	12040.8	10621.6	9212.4	7896.0	6895.5	6336.3	5829.8	5902.6
12.5°	14763.9	14274.9	12737.9	10852.3	8954.1	7096.1	5554.0	4272.7	3585.6	3282.2	3319.8
15°	14681.1	14006.7	12005.7	9648.7	7173.8	4942.2	3395.1	2525.0	2211.6	2111.3	2123.8
17.5°	14641.0	13748.3	11248.4	8272.0	5353.4	3146.9	2194.0	1935.8	1868.0	1850.5	1855.5
20°	14600.9	13487.6	10468.6	6910.5	3688.5	2116.3	1802.8	1727.6	1702.6	1680.0	1685.0
22.5°	14533.2	13236.8	9631.1	5531.4	2487.4	1717.6	1624.8	1552.1	1499.4	1471.8	1476.9
25°	14450.4	12973.6	8776.1	4119.8	1815.4	1532.0	1444.3	1341.5	1278.8	1228.6	1231.1
27.5°	14317.5	12650.1	7893.5	2998.9	1524.6	1371.6	1253.8	1140.9	1035.6	977.9	977.9
30°	14132.0	12284.0	6913.0	2146.4	1366.6	1213.6	1070.7	930.2	817.4	764.8	759.8
32.5°	13926.4	11902.8	5922.6	1627.3	1241.2	1065.7	902.7	754.7	654.4	611.8	609.3
35°	13750.9	11491.7	4934.7	1364.1	1115.8	922.7	744.7	619.4	539.1	504.0	501.5
37.5°	13638.0	11080.4	3971.8	1218.7	1003.0	789.9	624.3	511.5	453.8	426.3	423.8
40°	13620.4	10774.6	3091.7	1108.3	897.6	672.0	521.6	433.8	381.1	351.0	348.5
42.5°	13848.7	10599.0	2372.1	1015.5	789.9	569.2	443.8	371.1	316.0	285.9	283.4
45°	14447.9	10654.2	1825.5	932.8	682.0	481.4	376.2	308.4	258.2	235.7	230.7
47.5°	15541.2	11035.3	1451.8	850.0	579.2	408.7	320.9	255.8	213.1	190.6	188.1
50°	17487.0	11930.4	1213.6	759.8	483.9	348.5	265.8	208.1	173.0	153.0	150.4
52.5°	20069.6	13525.2	1083.2	672.0	401.2	295.9	218.2	165.5	135.4	120.4	117.8
55°	22918.1	15456.0	998.0	576.7	328.5	245.7	173.0	130.4	105.4	92.8	87.8
57.5°	25698.9	17128.4	917.8	483.9	273.3	200.6	137.9	102.8	82.7	70.2	67.7
60°	28253.9	18665.5	825.0	388.6	223.2	158.0	107.8	80.2	65.2	52.6	52.6
62.5°	30989.6	19854.0	697.1	303.4	183.0	120.4	87.8	72.8	52.6	45.2	42.7
65°	33888.2	20736.6	546.6	235.7	142.9	90.3	72.8	75.3	42.7	32.6	30.1
67.5°	36029.6	20561.1	403.7	185.6	110.3	70.2	70.2	80.2	37.6	25.1	22.5
69°	35558.2	19134.4	338.5	160.5	95.3	60.2	65.2	80.2	35.1	22.5	20.0
70°	34191.6	17554.6	298.4	142.9	85.2	55.1	62.7	77.7	32.6	22.5	20.0
72.5°	28474.6	13221.8	233.2	107.8	67.7	45.2	52.6	67.7	32.6	22.5	17.5
75°	21418.6	8462.6	178.0	77.7	50.1	35.1	40.1	50.1	32.6	20.0	17.5
77.5°	11654.6	3051.6	127.9	52.6	35.1	27.6	27.6	37.6	30.1	15.1	10.1
80°	2996.4	767.3	80.2	35.1	27.6	20.0	17.5	25.1	17.5	2.5	0.0
82.5°	739.7	173.0	42.7	25.1	20.0	7.5	7.5	12.6	7.5	0.0	0.0
85°	406.2	85.2	27.6	17.5	10.1	0.0	0.0	2.5	0.0	0.0	0.0
87.5°	208.1	25.1	7.5	5.0	2.5	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)