

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: P382944

Luminaire Tested: **GLEON-SA3A-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382944
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: McGRAW-EDISON
Catalog Number: GLEON-SA3A-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA 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: 10757.5 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

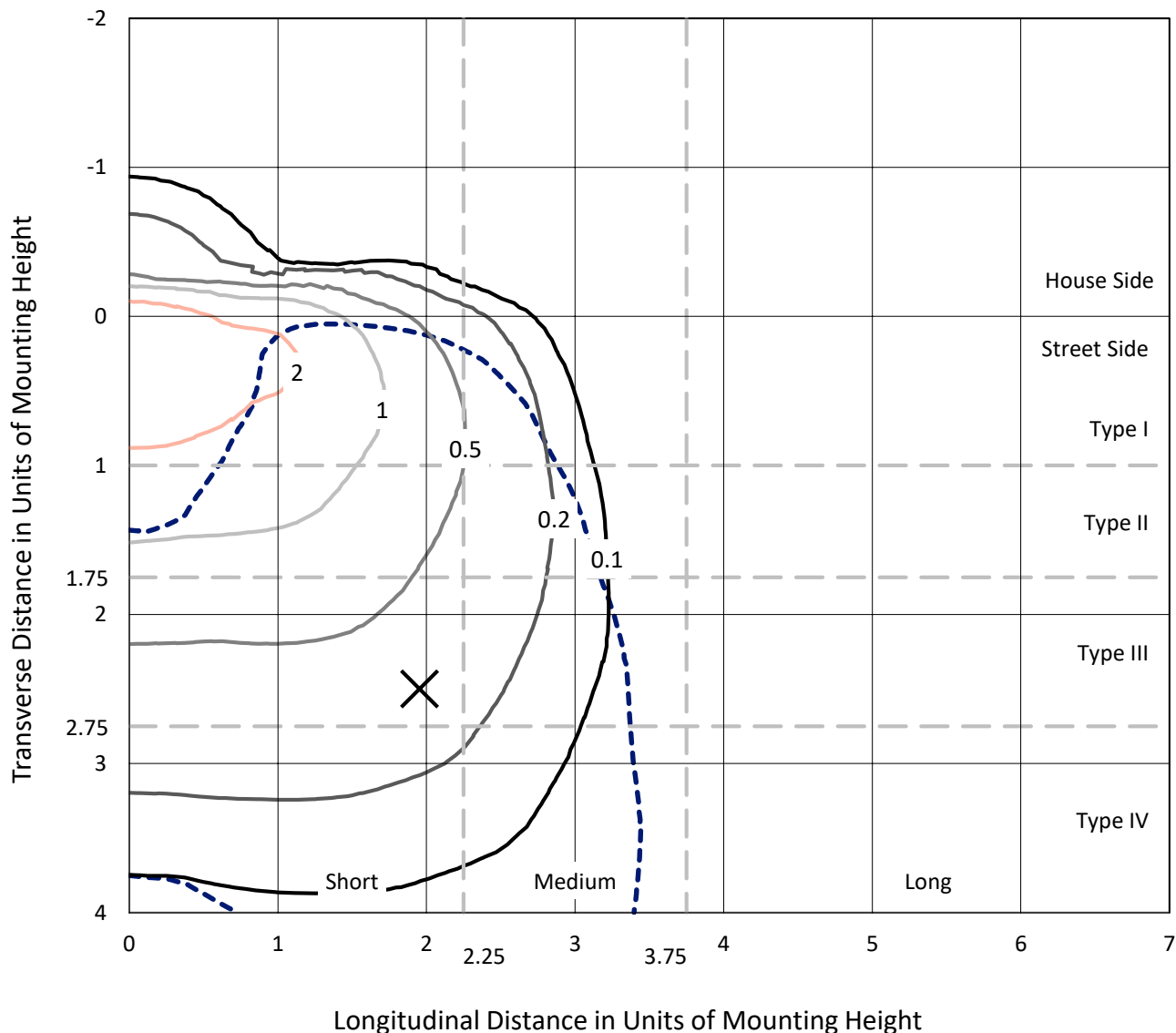
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

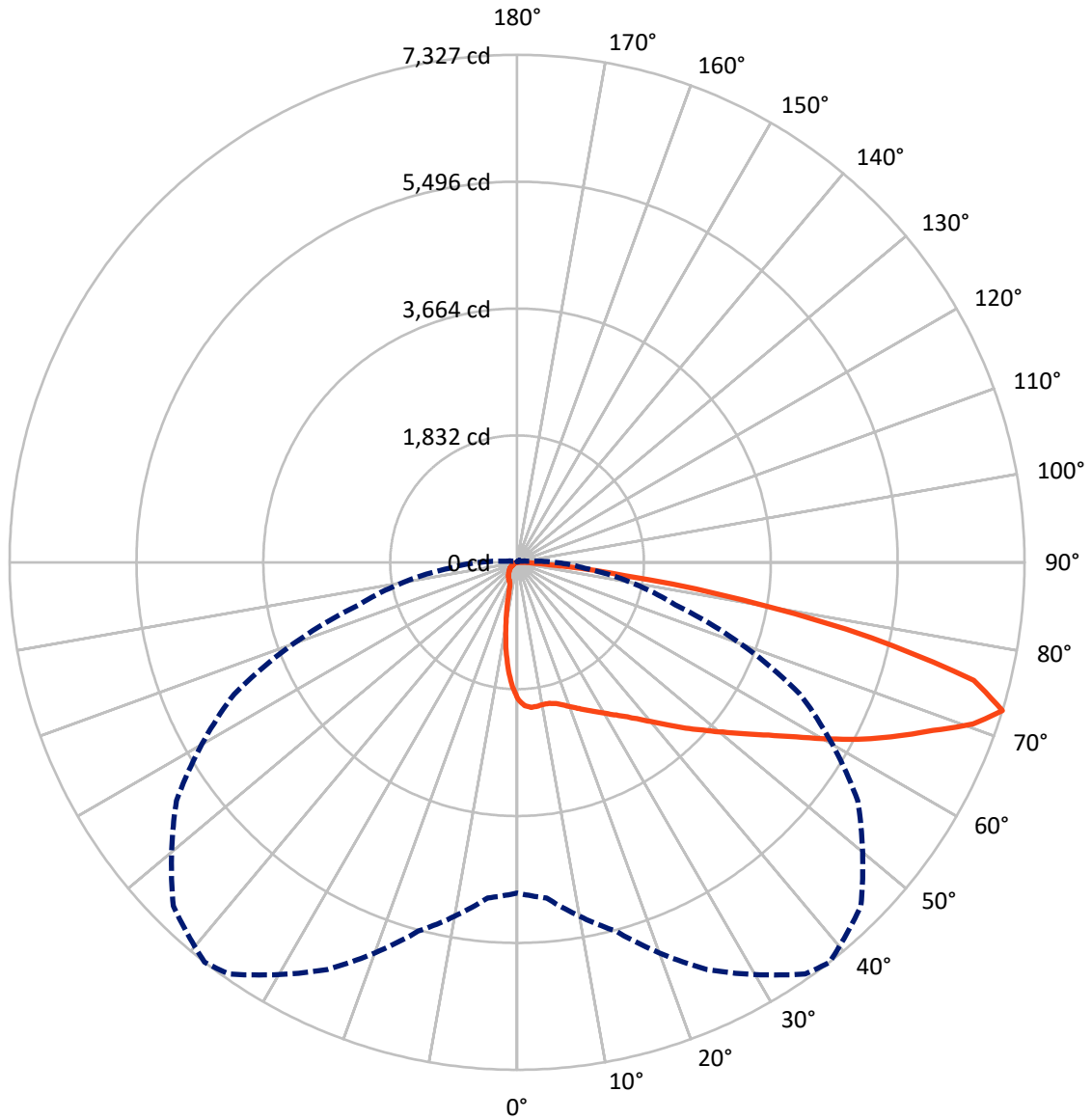
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	905.3	0.0	905.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	9852.2	0.0	9852.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	10757.5	0.0	10757.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.6	1.6
10°-20°	412.2	3.8
20°-30°	655.6	6.1
30°-40°	985.7	9.2
40°-50°	1503.7	14.0
50°-60°	2125.3	19.8
60°-70°	2665.8	24.8
70°-80°	1993.3	18.5
80°-90°	247.2	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°	10757.5	100.0
0°-180°	10757.5	100.0

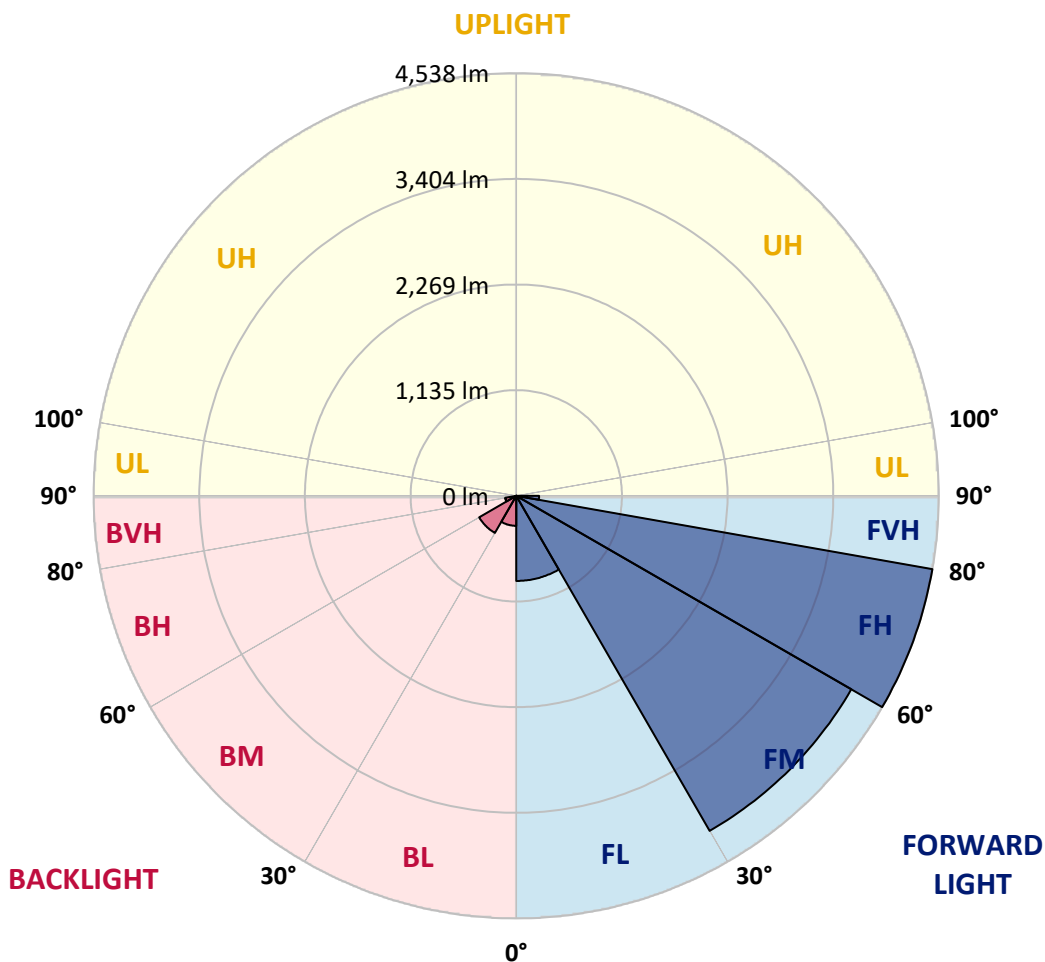


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	914.1	8.5			
FM (30°-60°)	4155.0	38.6			
FH (60°-80°)	4538.2	42.2			G2/5000
FVH (80°-90°)	244.9	2.3			G3/500
BL (0°-30°)	322.3	3.0	B1/500		
BM (30°-60°)	459.7	4.3	B1/1000		
BH (60°-80°)	120.9	1.1	B1/500		G1/500
BVH (80°-90°)	2.3	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-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2
2.5°	2099.8	2100.3	2095.3	2087.3	2077.0	2071.7	2062.7	2048.4	2033.2	2006.0	1976.5
5°	2142.7	2142.7	2136.4	2125.7	2109.2	2104.3	2087.3	2064.5	2033.2	1988.9	1939.4
7.5°	2138.2	2139.1	2130.6	2119.5	2102.9	2098.4	2077.9	2052.5	2013.5	1960.0	1896.5
10°	2115.0	2117.2	2110.5	2105.1	2089.9	2085.1	2065.8	2040.4	2001.5	1944.3	1871.5
12.5°	2091.3	2093.6	2095.8	2100.6	2091.3	2089.6	2074.4	2052.9	2015.8	1956.3	1874.2
15°	2076.1	2080.6	2096.6	2115.9	2118.2	2116.3	2106.5	2086.4	2048.8	1987.2	1893.4
17.5°	2076.1	2083.2	2116.8	2153.4	2166.3	2167.7	2159.2	2131.1	2086.4	2020.2	1911.3
20°	2093.6	2103.3	2155.6	2207.5	2228.9	2228.9	2212.3	2173.0	2120.8	2050.2	1923.3
22.5°	2138.2	2151.1	2216.8	2276.7	2299.5	2294.6	2272.2	2215.0	2156.5	2084.2	1938.6
25°	2226.2	2236.1	2304.4	2364.7	2378.6	2367.4	2339.3	2266.0	2202.1	2130.2	1966.2
27.5°	2339.7	2341.1	2411.6	2462.5	2454.1	2446.5	2411.2	2329.9	2267.8	2195.8	2014.0
30°	2464.3	2464.3	2526.5	2565.3	2539.4	2533.2	2497.9	2407.1	2351.8	2285.2	2081.9
32.5°	2585.0	2590.4	2640.8	2665.4	2636.4	2630.1	2595.7	2505.0	2463.5	2421.5	2187.8
35°	2701.6	2705.6	2753.4	2766.8	2739.1	2740.9	2716.3	2639.4	2623.9	2618.5	2347.3
37.5°	2814.6	2815.5	2864.2	2872.7	2858.8	2874.0	2876.2	2808.3	2837.4	2880.7	2572.0
40°	2917.8	2918.7	2967.0	2988.9	3012.5	3032.2	3049.6	3013.5	3109.5	3210.0	2839.6
42.5°	3000.4	3009.8	3071.0	3112.6	3175.2	3212.7	3260.0	3258.3	3433.4	3584.4	3163.1
45°	3073.3	3089.4	3174.7	3247.6	3354.8	3414.6	3488.7	3546.9	3797.9	4001.2	3490.6
47.5°	3169.3	3184.5	3281.9	3401.2	3544.2	3622.8	3745.7	3871.2	4198.7	4410.4	3810.5
50°	3304.8	3298.1	3394.1	3565.2	3748.8	3852.0	4027.2	4215.3	4596.3	4767.0	3998.6
52.5°	3449.1	3446.4	3517.3	3743.4	3990.0	4110.6	4342.1	4570.8	4976.5	5012.7	4084.7
55°	3627.7	3608.5	3668.3	3946.7	4276.5	4405.9	4678.5	4922.9	5279.5	5151.2	4128.1
57.5°	3814.9	3783.2	3840.4	4173.2	4599.4	4752.7	5051.1	5266.0	5480.9	5245.9	4127.7
60°	4008.4	3970.8	4038.7	4456.4	5000.6	5178.0	5455.0	5497.9	5669.0	5293.7	4097.3
62.5°	4170.1	4147.7	4248.7	4759.4	5448.7	5623.0	5760.1	5708.7	5827.6	5330.8	4026.2
65°	4341.2	4342.5	4505.6	5112.8	5925.0	6042.5	6054.1	5982.2	5960.3	5323.2	3785.9
67.5°	4572.6	4594.1	4866.1	5592.5	6388.3	6479.0	6478.1	6278.4	6057.2	5021.1	3252.9
70°	4817.5	4867.9	5281.7	6141.7	6894.0	6986.0	6938.7	6466.9	5703.4	4060.2	2302.1
72.5°	4776.3	4863.9	5512.6	6487.9	7257.2	7327.4	7019.6	6003.6	4507.9	2359.8	980.2
75°	3684.9	3786.4	5054.7	6144.8	6876.1	6813.2	6031.3	4671.8	2463.5	658.5	220.7
77.5°	1946.6	2000.6	3339.1	4681.2	5361.6	5229.8	4248.7	2591.7	751.0	163.1	99.2
80°	1019.5	1032.1	1455.1	2656.0	3309.1	3310.1	2518.0	1138.4	309.6	83.6	66.6
82.5°	546.0	556.7	768.9	1227.2	1733.9	1571.7	964.2	626.4	180.1	47.3	63.9
85°	131.3	133.6	436.1	560.7	681.8	487.0	286.4	525.9	48.7	27.7	51.8
87.5°	50.5	51.4	161.7	242.6	173.8	112.6	134.0	196.1	6.2	10.7	8.0
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°	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2
2.5°	1958.6	1947.0	1918.4	1882.2	1850.1	1826.9	1791.9	1769.2	1754.0	1753.5	1747.8
5°	1909.0	1885.4	1823.7	1750.4	1683.9	1624.0	1553.4	1497.6	1456.0	1449.3	1435.0
7.5°	1855.8	1817.0	1722.2	1607.9	1496.3	1382.7	1251.0	1169.2	1099.0	1065.5	1062.0
10°	1823.2	1768.7	1634.3	1469.0	1293.8	1109.3	936.9	817.6	731.4	706.8	688.5
12.5°	1816.5	1744.6	1566.4	1338.5	1088.3	844.4	653.6	526.7	457.9	436.1	430.2
15°	1823.2	1733.4	1509.2	1209.4	880.1	599.1	438.8	365.0	339.1	332.8	332.4
17.5°	1827.2	1720.0	1444.4	1066.0	678.2	428.0	336.0	314.5	310.5	310.0	311.0
20°	1826.9	1699.5	1367.1	906.0	504.4	336.4	303.8	299.3	298.5	298.8	298.5
22.5°	1823.7	1675.4	1282.2	741.1	381.1	300.7	290.0	287.3	286.8	286.8	286.8
25°	1829.5	1656.2	1188.8	583.4	314.1	284.1	277.4	275.2	274.7	274.7	273.9
27.5°	1850.5	1645.4	1086.6	449.0	283.7	269.4	264.0	263.6	262.2	261.8	262.7
30°	1884.4	1645.4	974.4	349.3	265.4	254.2	250.2	249.3	248.8	248.4	248.8
32.5°	1944.3	1658.0	852.0	290.4	248.0	237.3	234.6	235.9	234.6	234.6	234.6
35°	2052.5	1695.5	723.7	253.3	229.6	220.7	218.0	219.8	218.9	218.9	218.4
37.5°	2210.1	1765.2	594.6	230.9	213.5	204.2	200.6	203.3	202.4	202.4	202.0
40°	2402.3	1866.5	471.8	214.0	198.0	188.1	185.0	186.3	184.1	184.1	185.0
42.5°	2639.4	1995.3	364.5	197.5	182.3	172.9	171.1	169.7	165.7	163.5	164.0
45°	2903.1	2129.2	284.1	181.4	167.5	159.9	157.2	153.7	147.0	142.5	143.0
47.5°	3138.5	2232.5	230.9	165.7	154.2	148.3	144.3	137.6	127.8	122.4	122.9
50°	3262.3	2248.1	196.6	150.1	141.6	135.8	130.0	119.7	108.2	102.3	101.8
52.5°	3294.0	2174.9	171.1	135.8	129.1	122.4	114.9	101.0	88.0	81.8	80.9
55°	3305.6	2063.2	148.3	122.4	115.7	108.2	98.3	82.6	70.6	64.4	63.9
57.5°	3267.2	1896.5	130.4	110.4	102.3	93.0	80.9	66.1	54.5	49.6	49.6
60°	3181.9	1670.9	116.6	97.4	88.5	77.7	65.2	51.4	40.6	36.6	36.6
62.5°	3011.6	1378.7	103.7	84.0	75.5	64.4	52.7	38.8	28.6	26.4	26.8
65°	2690.4	1045.8	90.7	71.9	64.4	53.2	41.1	27.7	19.2	19.2	20.1
67.5°	2194.1	726.4	77.3	61.2	55.4	43.3	31.3	19.2	13.4	15.2	17.0
70°	1452.5	407.5	66.1	50.5	47.3	34.4	23.2	12.9	10.7	14.3	17.4
72.5°	548.2	158.6	55.4	40.6	41.1	26.4	16.5	9.9	9.9	15.6	20.6
75°	152.8	77.7	39.8	29.9	32.1	19.2	12.0	8.5	9.4	17.9	24.1
77.5°	89.8	57.2	25.9	17.4	21.9	13.4	8.0	6.7	8.0	15.2	23.2
80°	72.4	30.4	15.2	8.9	12.0	7.6	5.4	4.0	2.2	5.8	12.0
82.5°	72.4	18.4	7.2	6.2	6.2	4.0	2.7	1.8	0.5	0.0	3.2
85°	48.7	7.6	4.5	4.0	3.2	1.3	0.9	0.5	0.0	0.0	0.0
87.5°	8.0	3.2	1.8	0.9	0.5	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)