

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: P397906

Luminaire Tested: **ARCH-S-PA1-60-730-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397906
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-60-730-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8271 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

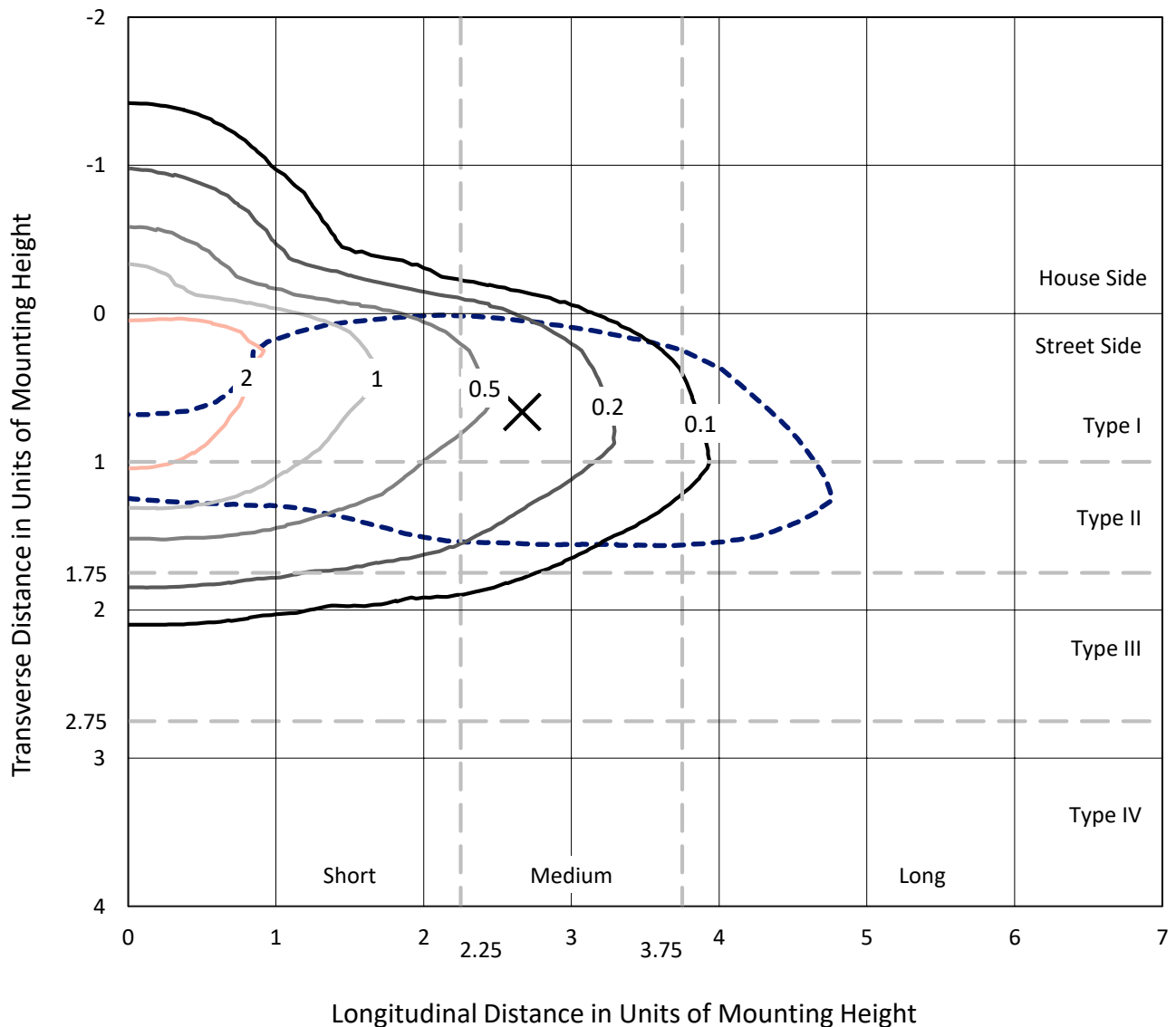
Input Watts (W): 64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

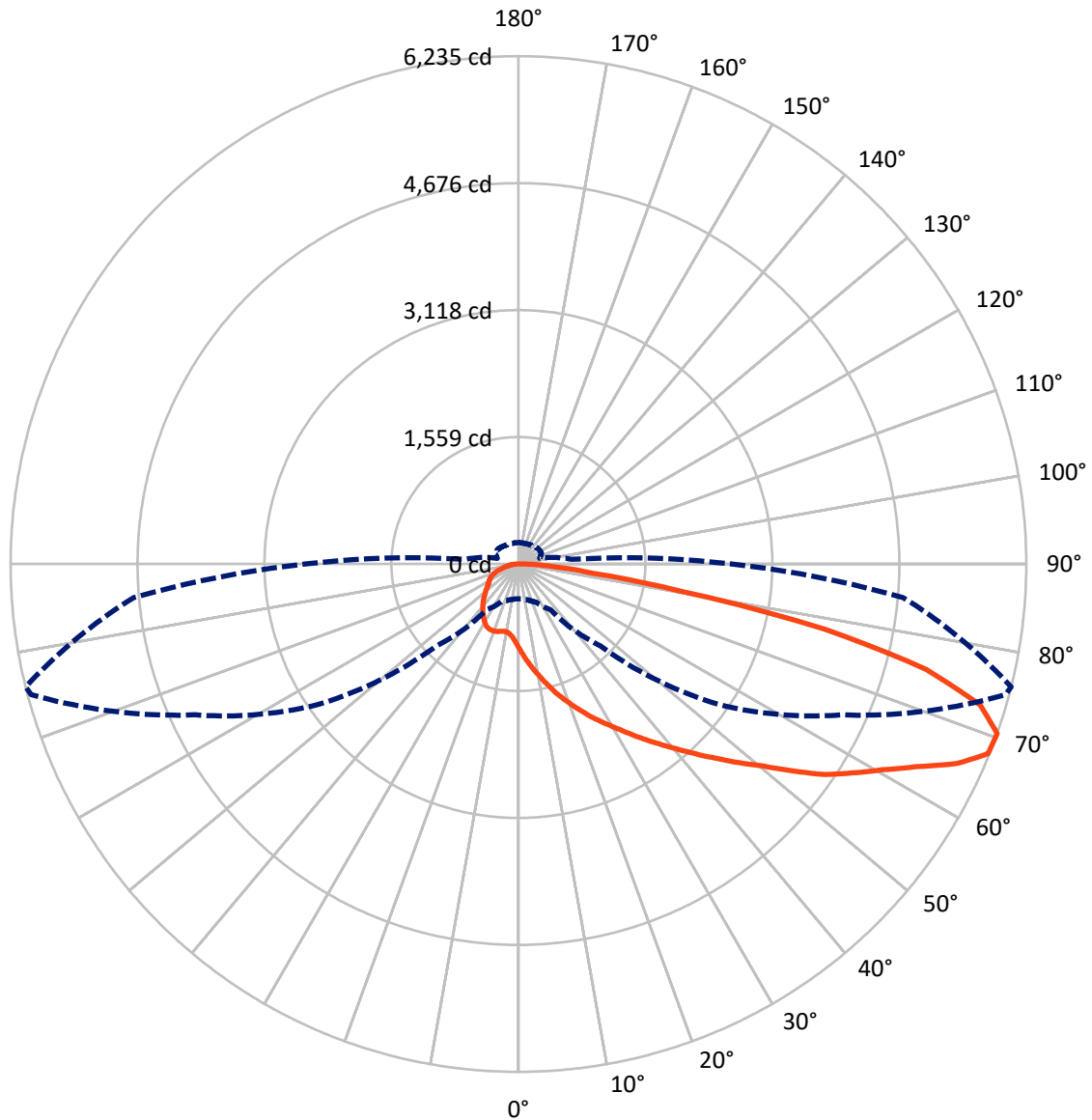
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1350.3	0.0	1350.3
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	6920.7	0.0	6920.7
	% Fixture	83.7	0.0	83.7
Total	Lumens	8271.0	0.0	8271.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	1.3
10°-20°	365.3	4.4
20°-30°	653.5	7.9
30°-40°	1057.1	12.8
40°-50°	1529.3	18.5
50°-60°	1750.4	21.2
60°-70°	1610.1	19.5
70°-80°	995.7	12.0
80°-90°	202.2	2.4
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°	8271.0	100.0
0°-180°	8271.0	100.0



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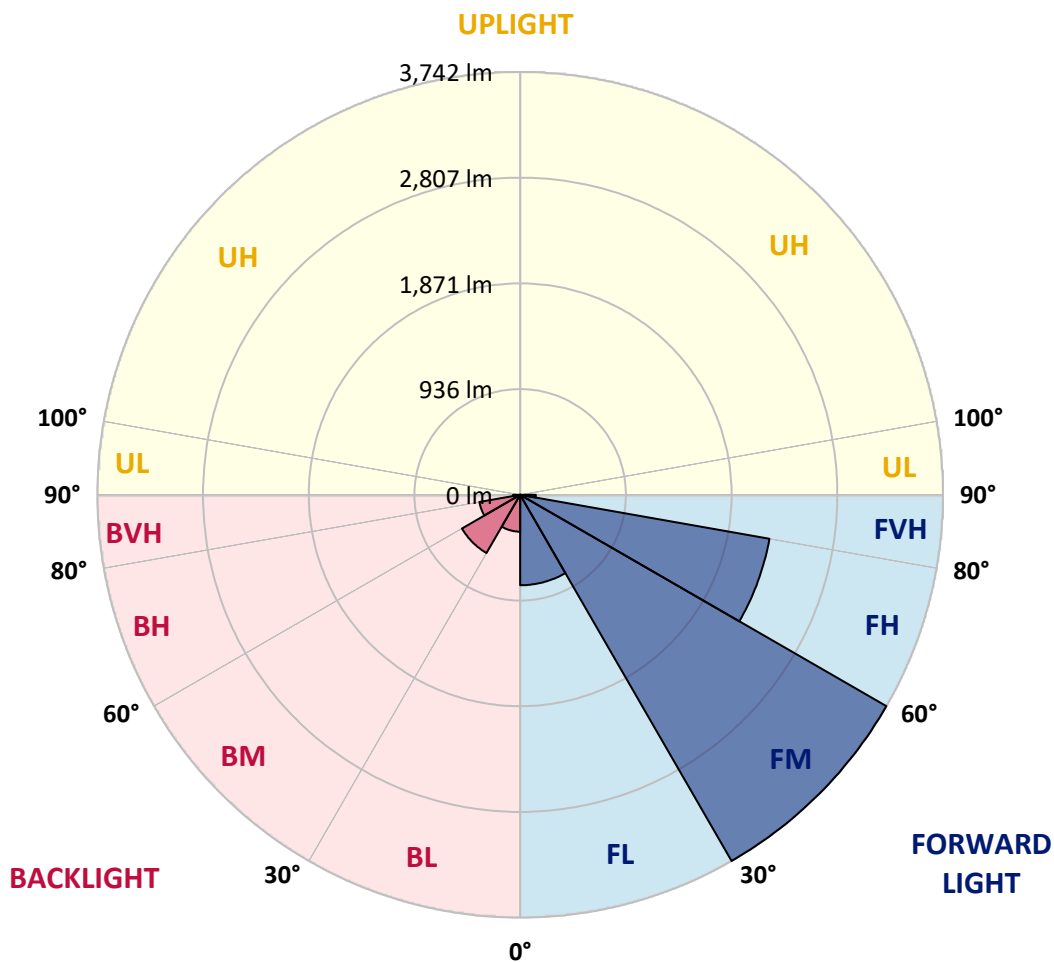
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	800.1	9.7			
FM	(30°-60°)	3742.2	45.2			
FH	(60°-80°)	2239.6	27.1			G2/5000
FVH	(80°-90°)	138.8	1.7			G2/225
BL	(0°-30°)	326.1	3.9	B1/500		
BM	(30°-60°)	594.5	7.2	B1/1000		
BH	(60°-80°)	366.3	4.4	B1/500		G1/500
BVH	(80°-90°)	63.4	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1034.3	1034.3	1034.3	1034.3	1034.3	1034.3	1034.3	1034.3	1034.3	1034.3	1034.3
2.5°	1318.2	1308.4	1307.3	1292.1	1278.0	1239.9	1212.7	1164.8	1117.0	1115.9	1068.0
5°	1523.8	1514.0	1508.5	1490.0	1466.1	1416.1	1367.1	1293.2	1211.6	1206.2	1115.9
7.5°	1663.0	1654.3	1643.4	1635.8	1612.9	1568.3	1508.5	1420.4	1308.4	1297.5	1171.4
10°	1756.5	1751.1	1748.9	1743.5	1729.3	1693.4	1635.8	1542.2	1405.2	1393.2	1230.1
12.5°	1796.7	1794.6	1804.4	1819.6	1825.0	1810.9	1755.4	1667.3	1511.8	1498.7	1300.8
15°	1750.0	1752.2	1777.2	1829.4	1884.8	1915.3	1882.7	1796.7	1632.5	1614.0	1383.4
17.5°	1728.2	1731.5	1748.9	1798.9	1877.2	1971.8	1987.1	1919.6	1748.9	1722.8	1470.5
20°	1766.3	1770.6	1783.7	1822.8	1877.2	1978.4	2057.8	2037.1	1863.1	1835.9	1554.2
22.5°	1863.1	1868.5	1867.4	1892.5	1929.4	1999.0	2096.9	2148.0	1982.7	1952.3	1641.2
25°	2069.7	2065.4	2028.4	2016.4	2026.2	2070.8	2149.1	2254.6	2107.8	2077.3	1732.6
27.5°	2350.3	2344.9	2277.5	2216.6	2162.2	2181.8	2223.1	2340.6	2235.1	2200.2	1819.6
30°	2650.5	2644.0	2565.7	2466.7	2346.0	2317.7	2312.3	2415.6	2363.4	2326.4	1912.0
32.5°	2943.1	2937.7	2853.9	2738.6	2572.2	2487.4	2435.2	2499.3	2509.1	2473.2	2013.2
35°	3209.6	3209.6	3137.8	3000.7	2812.6	2684.2	2598.3	2602.7	2676.6	2635.3	2128.5
37.5°	3446.7	3445.6	3367.3	3232.4	3051.9	2905.0	2798.4	2727.7	2836.5	2800.6	2249.2
40°	3634.8	3627.2	3569.6	3452.1	3270.5	3124.7	3017.1	2874.6	3014.9	2982.2	2377.5
42.5°	3771.9	3767.5	3728.4	3626.1	3453.2	3316.1	3242.2	3059.5	3217.2	3184.5	2527.6
45°	3825.1	3833.9	3833.9	3737.1	3600.0	3474.9	3442.3	3262.9	3435.8	3403.2	2688.6
47.5°	3739.2	3762.1	3808.8	3815.4	3694.6	3609.8	3620.7	3467.3	3660.9	3643.5	2864.8
50°	3470.6	3513.0	3615.2	3800.1	3732.7	3713.1	3772.9	3676.1	3902.4	3896.9	3079.0
52.5°	2777.8	2881.1	3199.8	3531.5	3706.6	3761.0	3924.1	3911.1	4213.4	4222.1	3358.6
55°	2130.6	2169.8	2538.5	3103.0	3546.7	3745.8	4025.3	4140.6	4550.6	4561.5	3615.2
57.5°	1722.8	1748.9	1950.1	2538.5	3182.4	3663.1	4104.7	4274.3	4809.4	4837.7	3843.6
60°	1365.0	1403.0	1537.9	1942.5	2672.3	3464.1	4160.1	4423.3	5087.9	5130.3	4116.6
62.5°	1014.7	1033.2	1160.5	1438.9	2115.4	3106.2	4130.8	4585.4	5429.4	5480.5	4445.1
65°	722.2	738.5	828.8	1023.4	1564.0	2622.2	3960.0	4706.1	5857.9	5910.1	4775.7
67.5°	540.5	547.1	598.2	715.7	1053.9	2037.1	3614.2	4685.5	6171.1	6217.9	4908.4
70°	427.4	429.6	454.6	517.7	685.2	1418.3	3008.3	4382.0	6194.0	6235.3	4740.9
72.5°	354.6	353.5	367.6	398.1	477.5	897.3	2228.5	3818.6	5900.3	5928.6	4273.2
75°	292.6	294.7	304.5	321.9	364.4	591.7	1444.4	3046.4	5205.3	5174.9	3585.9
77.5°	245.8	244.7	249.1	264.3	294.7	425.3	846.2	2201.3	3857.8	3842.6	2353.6
80°	197.9	200.1	206.6	219.7	248.0	324.1	500.3	1373.7	2069.7	2014.3	1124.6
82.5°	132.7	153.4	166.4	181.6	214.3	239.3	317.6	698.3	925.6	911.4	510.1
85°	63.1	83.7	124.0	141.4	174.0	150.1	215.3	332.8	463.3	457.9	183.8
87.5°	13.1	13.1	66.3	79.4	107.7	64.2	119.6	144.7	224.0	209.9	75.0
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°	1034.3	1034.3	1034.3	1034.3	1034.3	1034.3	1034.3	1034.3	1034.3	1034.3	1034.3
2.5°	1039.8	1010.4	951.7	904.9	857.0	829.9	796.1	779.8	776.6	767.9	774.4
5°	1058.3	1000.6	889.7	816.8	767.9	743.9	732.0	727.6	726.5	724.4	724.4
7.5°	1083.3	995.2	850.5	776.6	745.0	737.4	740.7	747.2	748.3	750.5	749.4
10°	1113.7	996.3	828.8	766.8	751.5	752.6	763.5	772.2	776.6	779.8	778.7
12.5°	1156.1	1009.3	825.5	773.3	766.8	771.1	782.0	790.7	795.0	796.1	796.1
15°	1211.6	1036.5	833.1	787.4	782.0	785.3	791.8	795.0	796.1	795.0	795.0
17.5°	1272.5	1069.1	844.0	796.1	787.4	784.2	782.0	778.7	772.2	767.9	767.9
20°	1331.2	1098.5	849.4	795.0	779.8	766.8	753.7	737.4	726.5	717.8	717.8
22.5°	1390.0	1125.7	849.4	783.1	759.2	734.1	707.0	680.8	664.5	653.7	653.7
25°	1452.0	1151.8	842.9	762.4	726.5	690.6	653.7	621.0	604.7	593.8	591.7
27.5°	1504.2	1167.0	825.5	733.1	686.3	640.6	598.2	564.5	552.5	542.7	542.7
30°	1559.6	1176.8	792.9	695.0	640.6	588.4	544.9	517.7	504.7	490.5	489.4
32.5°	1621.6	1183.3	755.9	654.7	593.8	538.4	501.4	479.6	451.4	436.1	434.0
35°	1693.4	1192.0	716.7	609.1	547.1	497.0	475.3	439.4	412.2	399.2	398.1
37.5°	1769.6	1198.6	674.3	568.8	504.7	469.9	448.1	405.7	381.8	362.2	360.0
40°	1850.0	1198.6	630.8	529.7	470.9	457.9	416.6	378.5	338.2	328.5	326.3
42.5°	1939.2	1196.4	587.3	491.6	439.4	430.7	398.1	357.8	337.2	328.5	326.3
45°	2033.8	1188.8	546.0	448.1	406.8	389.4	364.4	353.5	344.8	344.8	344.8
47.5°	2141.5	1182.2	499.2	408.9	382.8	363.3	344.8	338.2	337.2	340.4	343.7
50°	2279.6	1180.1	460.1	380.7	364.4	341.5	339.3	333.9	335.0	335.0	335.0
52.5°	2447.1	1160.5	423.1	360.0	345.9	318.7	325.2	330.6	332.8	331.7	330.6
55°	2570.0	1125.7	391.5	345.9	332.8	310.0	318.7	327.4	329.5	326.3	326.3
57.5°	2681.0	1076.7	366.5	335.0	324.1	304.5	314.3	323.0	320.8	319.8	318.7
60°	2808.2	1030.0	346.9	329.5	315.4	302.4	311.1	316.5	313.2	311.1	310.0
62.5°	2946.4	984.3	332.8	329.5	308.9	301.3	307.8	310.0	303.4	301.3	301.3
65°	3010.5	912.5	317.6	329.5	305.6	299.1	301.3	299.1	292.6	292.6	291.5
67.5°	2905.0	794.0	298.0	325.2	310.0	295.8	291.5	288.2	280.6	280.6	278.4
70°	2613.5	652.6	269.7	311.1	311.1	294.7	278.4	270.8	262.1	265.4	261.0
72.5°	2232.9	517.7	234.9	287.1	304.5	293.7	264.3	252.3	244.7	248.0	241.5
75°	1808.7	401.3	193.6	249.1	288.2	288.2	250.2	233.8	225.1	225.1	217.5
77.5°	1152.9	296.9	157.7	206.6	258.9	280.6	238.2	213.2	200.1	196.9	191.4
80°	571.0	208.8	129.4	164.2	220.8	263.2	229.5	189.2	170.8	164.2	154.4
82.5°	303.4	144.7	103.3	128.3	176.2	237.1	218.6	163.1	140.3	130.5	119.6
85°	136.0	89.2	82.7	97.9	133.8	194.7	196.9	133.8	107.7	128.3	94.6
87.5°	50.0	40.2	40.2	50.0	77.2	81.6	139.2	85.9	68.5	46.8	37.0
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)