

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: P397694

Luminaire Tested: **ARCH-S-PA1-30-730-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-30-730-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4307 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 31
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: 28.75 FT

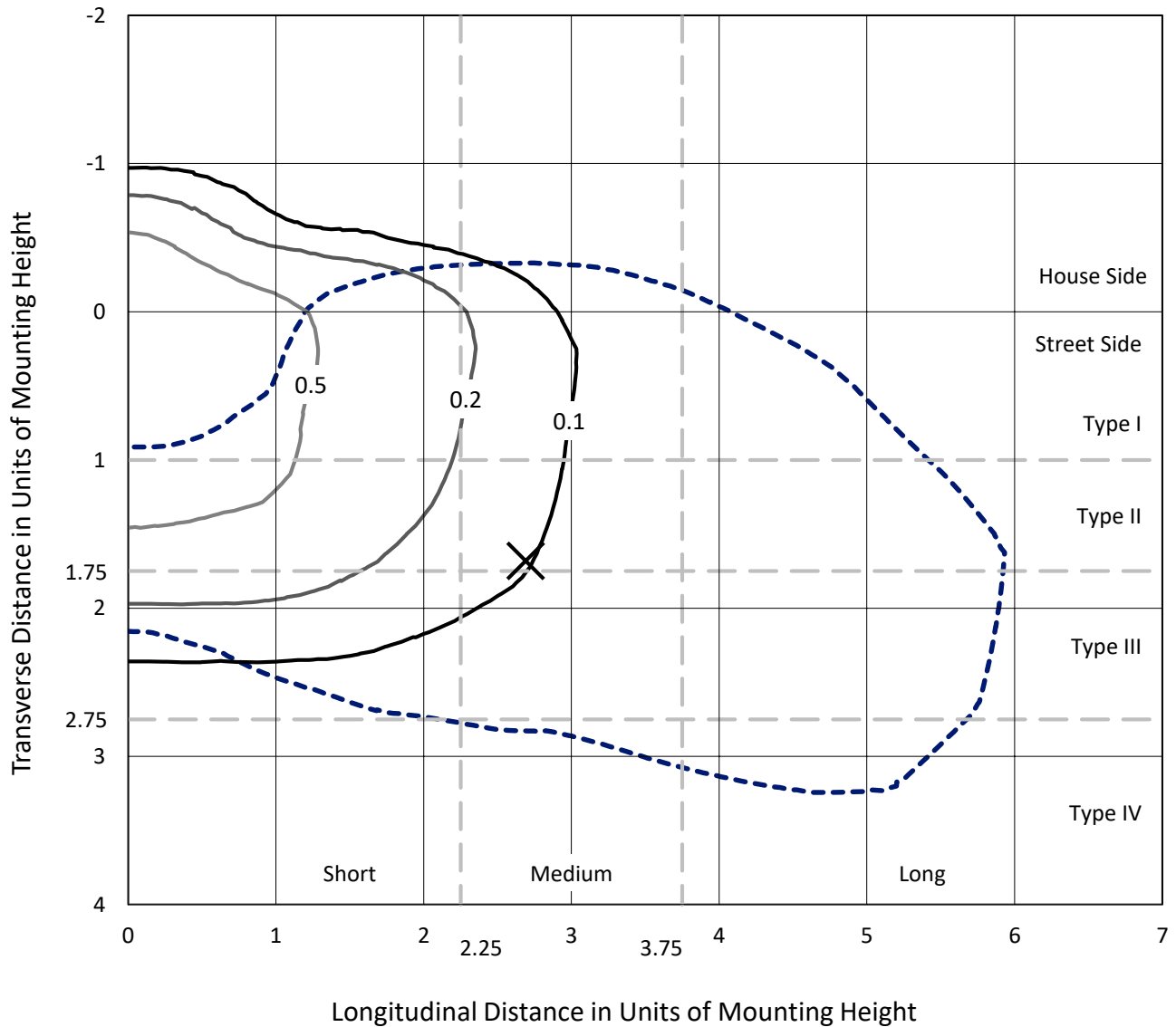


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

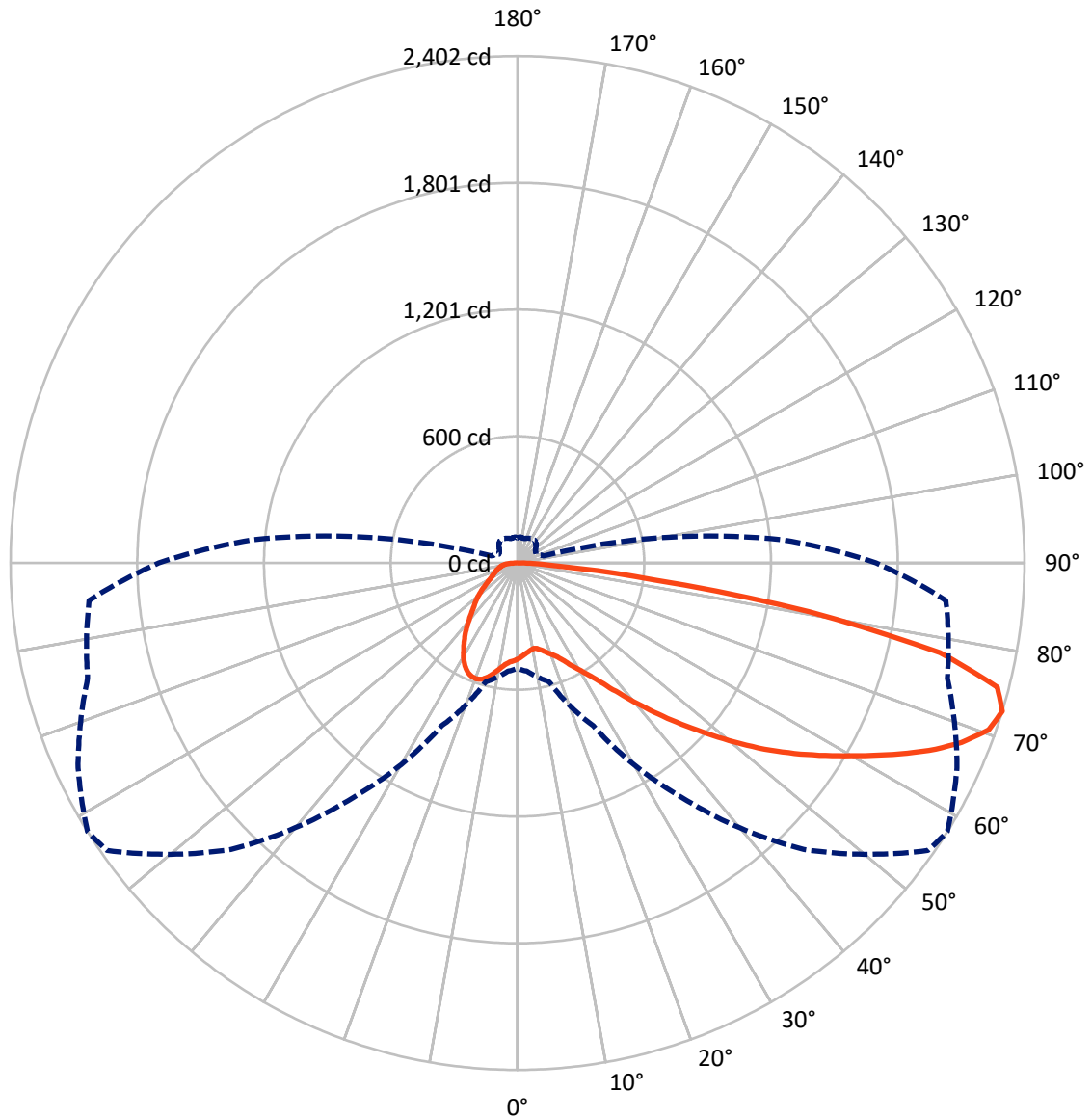


Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	976.8	0.0	976.8
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	3330.2	0.0	3330.2
	% Fixture	77.3	0.0	77.3
Total	Lumens	4307.0	0.0	4307.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	1.0
10°-20°	139.0	3.2
20°-30°	249.0	5.8
30°-40°	374.5	8.7
40°-50°	606.5	14.1
50°-60°	912.9	21.2
60°-70°	1074.4	24.9
70°-80°	761.8	17.7
80°-90°	145.2	3.4
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°	4307.0	100.0
0°-180°	4307.0	100.0



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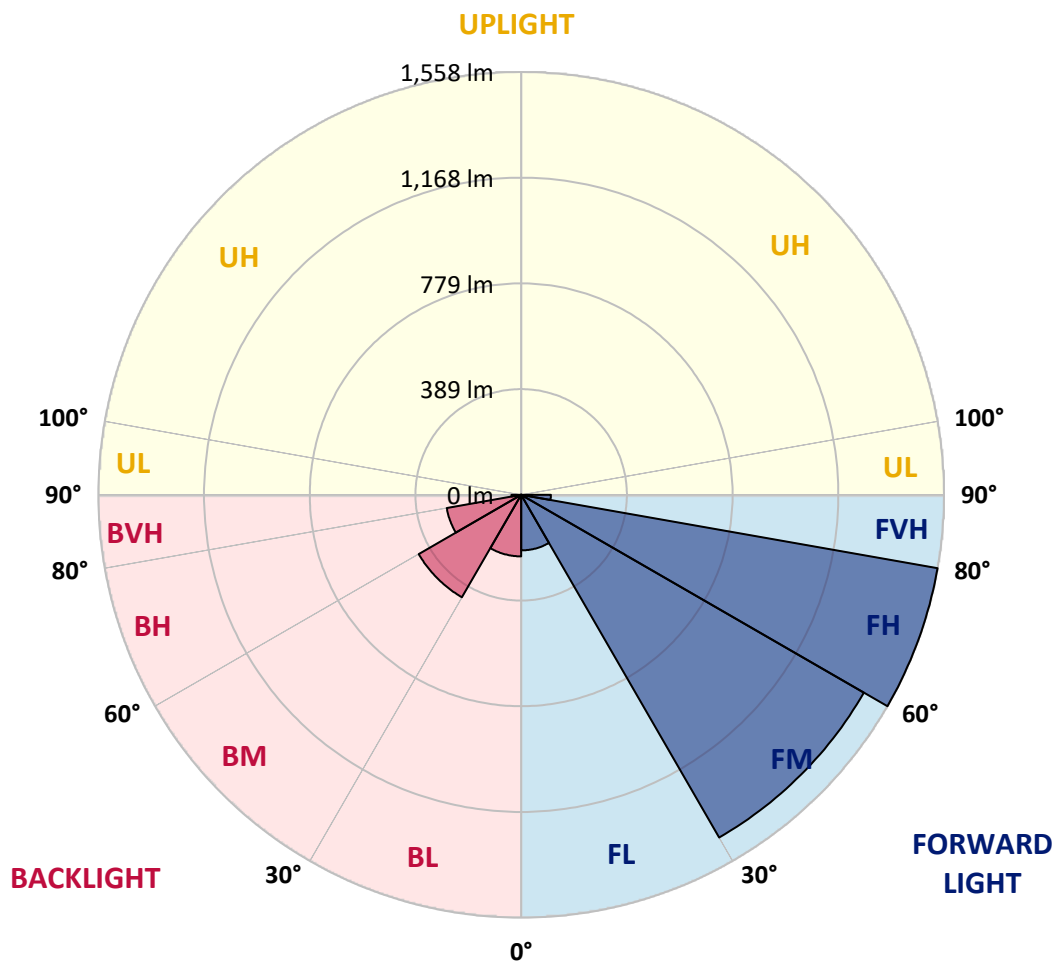
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	204.8	4.8			
FM (30°-60°)	1458.0	33.9			
FH (60°-80°)	1557.9	36.2			G1/1800
FVH (80°-90°)	109.5	2.5			G2/225
BL (0°-30°)	226.9	5.3	B1/500		
BM (30°-60°)	435.8	10.1	B1/1000		
BH (60°-80°)	278.4	6.5	B1/500		G1/500
BVH (80°-90°)	35.7	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3
2.5°	437.2	435.0	435.5	435.5	437.8	438.9	439.5	441.2	442.4	445.2	449.2
5°	416.8	415.1	415.6	416.2	420.2	424.2	427.6	429.8	433.3	437.8	443.5
7.5°	402.0	400.9	401.4	402.6	406.0	410.5	416.2	419.6	424.7	433.3	442.9
10°	391.2	391.2	391.8	394.0	397.4	403.1	407.7	411.7	421.9	437.2	452.0
12.5°	382.7	382.7	384.4	388.9	394.6	400.3	411.1	415.6	429.3	450.3	467.9
15°	382.1	382.7	383.2	387.2	393.5	406.0	421.9	428.7	445.2	470.2	490.7
17.5°	391.2	391.8	389.5	390.6	398.0	415.6	436.7	444.6	465.7	493.0	514.0
20°	419.0	419.0	412.2	406.0	411.1	430.4	454.3	462.3	485.6	515.7	536.7
22.5°	475.9	478.7	462.8	449.2	441.2	452.0	473.6	482.2	508.3	540.7	561.8
25°	544.7	547.5	525.9	506.6	491.8	490.1	504.3	513.4	535.0	568.6	586.2
27.5°	611.2	606.1	586.2	568.0	549.3	533.9	544.7	552.7	577.7	603.3	614.1
30°	663.5	659.6	640.2	627.1	609.5	589.6	583.4	591.9	612.4	636.2	641.9
32.5°	721.5	718.7	699.4	682.3	667.5	648.8	635.1	639.1	650.5	667.5	670.9
35°	795.4	801.7	781.2	746.5	730.1	711.9	702.2	703.3	711.9	722.7	717.0
37.5°	873.3	880.7	881.9	827.3	805.1	788.6	778.4	782.4	792.6	800.0	782.4
40°	1017.8	1010.4	980.8	940.4	906.3	890.4	876.2	875.6	883.0	896.1	864.2
42.5°	1209.4	1202.6	1142.8	1090.5	1036.5	1018.3	990.5	978.5	981.9	998.4	954.1
45°	1393.0	1390.2	1342.4	1281.6	1216.8	1181.5	1117.8	1088.8	1086.0	1099.1	1046.2
47.5°	1556.2	1543.7	1509.0	1461.8	1455.0	1362.9	1245.8	1206.5	1192.9	1200.3	1141.1
50°	1730.8	1688.1	1640.4	1611.4	1660.8	1575.0	1374.8	1333.9	1300.3	1305.5	1244.1
52.5°	1823.4	1751.8	1720.5	1729.1	1795.6	1762.6	1515.3	1465.2	1411.2	1418.6	1346.4
55°	1743.8	1743.3	1756.9	1809.8	1902.5	1864.4	1648.9	1592.6	1533.5	1535.2	1464.1
57.5°	1634.7	1656.8	1727.4	1843.9	2035.0	1971.3	1780.2	1720.5	1666.5	1658.0	1597.7
60°	1535.2	1559.6	1662.0	1838.2	2081.0	2069.1	1905.3	1853.0	1809.2	1784.2	1738.2
62.5°	1383.9	1402.1	1547.1	1801.8	2042.3	2139.6	2032.1	1996.3	1963.3	1911.6	1889.4
65°	1206.0	1212.2	1365.2	1681.9	1994.0	2166.9	2158.3	2142.4	2110.6	2034.4	2038.9
67.5°	1013.2	1025.7	1159.9	1490.3	1888.3	2154.4	2256.1	2269.2	2231.7	2117.4	2134.5
70°	808.0	823.3	925.1	1225.3	1708.6	2100.3	2346.5	2367.6	2295.4	2144.7	2152.1
72.5°	499.8	514.6	582.8	851.2	1354.4	1919.0	2374.4	2401.7	2297.1	2108.3	2037.2
75°	172.8	174.6	228.0	408.2	804.0	1448.7	2283.4	2347.7	2224.9	1975.8	1772.8
77.5°	79.0	81.9	101.2	168.3	356.5	781.8	1885.4	2046.3	2005.4	1768.9	1364.6
80°	54.6	55.7	69.9	100.6	205.8	275.2	1190.0	1399.8	1471.5	1369.7	874.5
82.5°	40.9	42.1	54.0	68.2	148.4	133.6	453.2	650.5	808.5	793.7	365.6
85°	39.2	38.7	42.1	45.5	98.9	79.6	146.7	201.3	315.6	270.1	92.1
87.5°	17.1	18.8	43.2	25.6	51.7	37.0	63.7	74.5	96.1	83.6	33.0
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°	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3
2.5°	450.9	452.0	455.4	460.6	463.4	469.1	473.1	475.3	477.0	477.6	477.6
5°	446.9	449.2	456.6	465.1	473.1	485.0	495.8	502.1	506.6	508.3	508.9
7.5°	448.0	453.7	464.5	477.0	487.3	502.6	515.7	528.2	538.4	542.4	542.4
10°	458.8	466.8	481.6	498.1	511.2	527.1	540.7	551.5	563.5	570.3	571.4
12.5°	475.3	485.0	504.3	522.5	537.3	549.8	562.3	570.3	576.0	581.1	582.2
15°	498.6	510.6	529.9	548.7	561.8	569.7	573.1	573.1	572.6	573.1	574.3
17.5°	522.0	533.3	552.7	571.4	577.7	573.1	569.2	568.0	567.4	566.3	566.9
20°	544.7	555.5	572.0	586.2	581.1	565.2	560.1	559.5	557.8	556.6	555.5
22.5°	567.4	575.4	589.1	594.2	573.7	551.0	544.7	541.3	539.0	536.2	533.3
25°	593.6	595.9	606.1	598.1	555.5	524.8	515.7	510.6	508.3	505.5	503.2
27.5°	618.0	618.0	619.8	591.9	528.8	490.1	476.5	467.4	466.8	466.2	465.7
30°	640.2	637.4	631.7	573.1	494.1	447.5	427.0	417.9	421.3	424.2	424.7
32.5°	666.4	660.7	644.8	547.5	452.6	399.7	374.7	370.7	374.7	378.1	375.8
35°	707.3	697.1	658.4	518.0	412.8	355.9	332.1	326.4	325.2	324.7	320.1
37.5°	765.9	748.3	669.2	486.1	373.6	317.3	299.6	287.7	276.9	265.5	263.8
40°	837.5	807.4	676.6	449.7	332.1	284.9	266.1	250.7	232.5	212.6	210.4
42.5°	916.0	871.1	680.0	409.4	295.7	258.1	234.8	215.5	195.0	179.7	176.8
45°	1000.7	939.9	677.2	370.7	266.1	235.4	209.2	188.2	171.7	160.9	158.6
47.5°	1083.1	1018.9	669.2	340.0	243.4	216.1	189.3	170.0	157.5	145.6	142.7
50°	1188.9	1094.5	659.6	316.1	218.3	196.7	176.8	156.4	142.1	136.5	135.3
52.5°	1306.0	1170.1	648.2	286.0	193.9	181.4	168.9	150.7	146.1	135.3	133.6
55°	1432.8	1260.0	645.9	247.9	172.3	170.6	160.9	155.8	156.9	135.3	132.5
57.5°	1566.4	1356.1	651.0	209.8	154.7	160.9	164.3	160.3	158.6	138.2	132.5
60°	1705.7	1448.7	635.7	174.6	141.0	152.9	168.3	158.1	145.6	137.0	133.0
62.5°	1841.1	1526.6	569.2	149.5	130.8	150.7	166.0	149.5	135.3	135.3	133.6
65°	1939.4	1561.3	445.2	131.3	124.0	147.8	162.0	143.9	132.5	136.5	134.2
67.5°	1950.8	1525.5	299.1	117.1	118.3	142.7	152.9	138.7	129.6	139.9	136.5
70°	1880.9	1432.3	183.1	106.3	110.9	133.6	145.0	133.6	125.7	137.0	131.9
72.5°	1699.5	1258.3	129.1	97.2	102.9	125.1	137.6	129.1	120.0	124.0	118.8
75°	1394.2	975.1	102.3	88.7	95.0	117.1	131.3	122.2	113.1	111.4	108.0
77.5°	987.6	624.9	82.4	81.9	86.4	107.5	122.8	114.3	105.2	101.8	99.5
80°	568.0	306.5	71.1	73.9	78.5	97.8	112.6	105.2	96.7	91.5	88.1
82.5°	217.2	106.9	62.5	64.2	69.4	87.6	102.3	96.1	87.6	92.1	77.3
85°	70.5	58.6	51.2	52.9	58.0	72.8	90.4	85.3	75.6	67.1	62.0
87.5°	31.3	31.8	27.3	30.1	36.4	48.3	66.0	62.5	55.2	46.1	44.3
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)