

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: P1211486

Luminaire Tested: **ARCH4-290-730-U-T3RE-HSS**

Issue Date: 11/5/2025

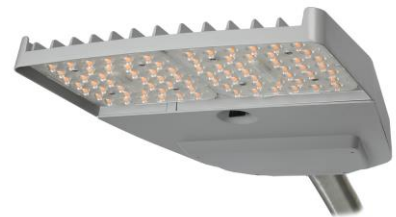
Test Information

Test Method: LM-79-08
Report Number: P1211486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-290-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1120mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

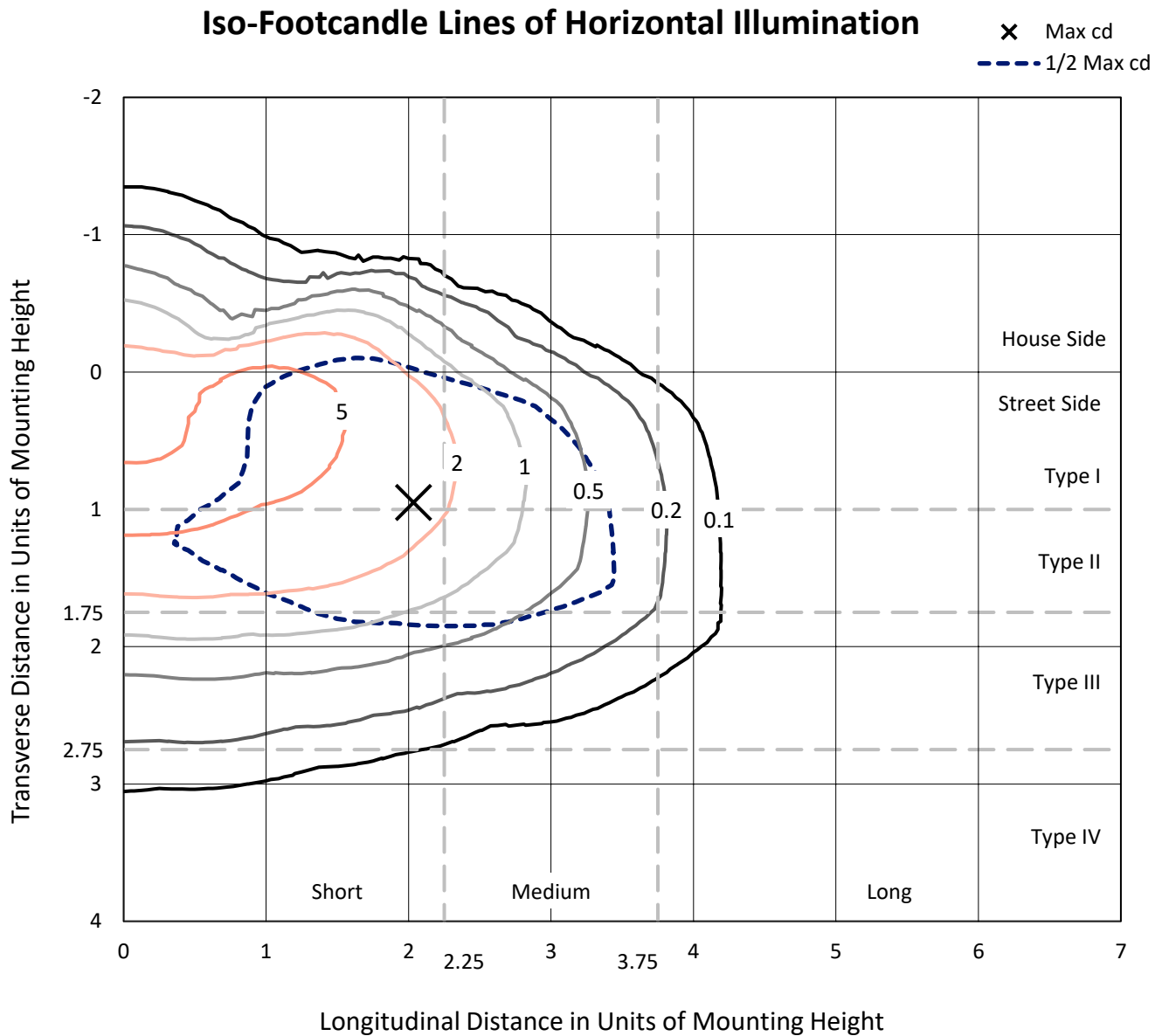
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28137 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 289.7
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

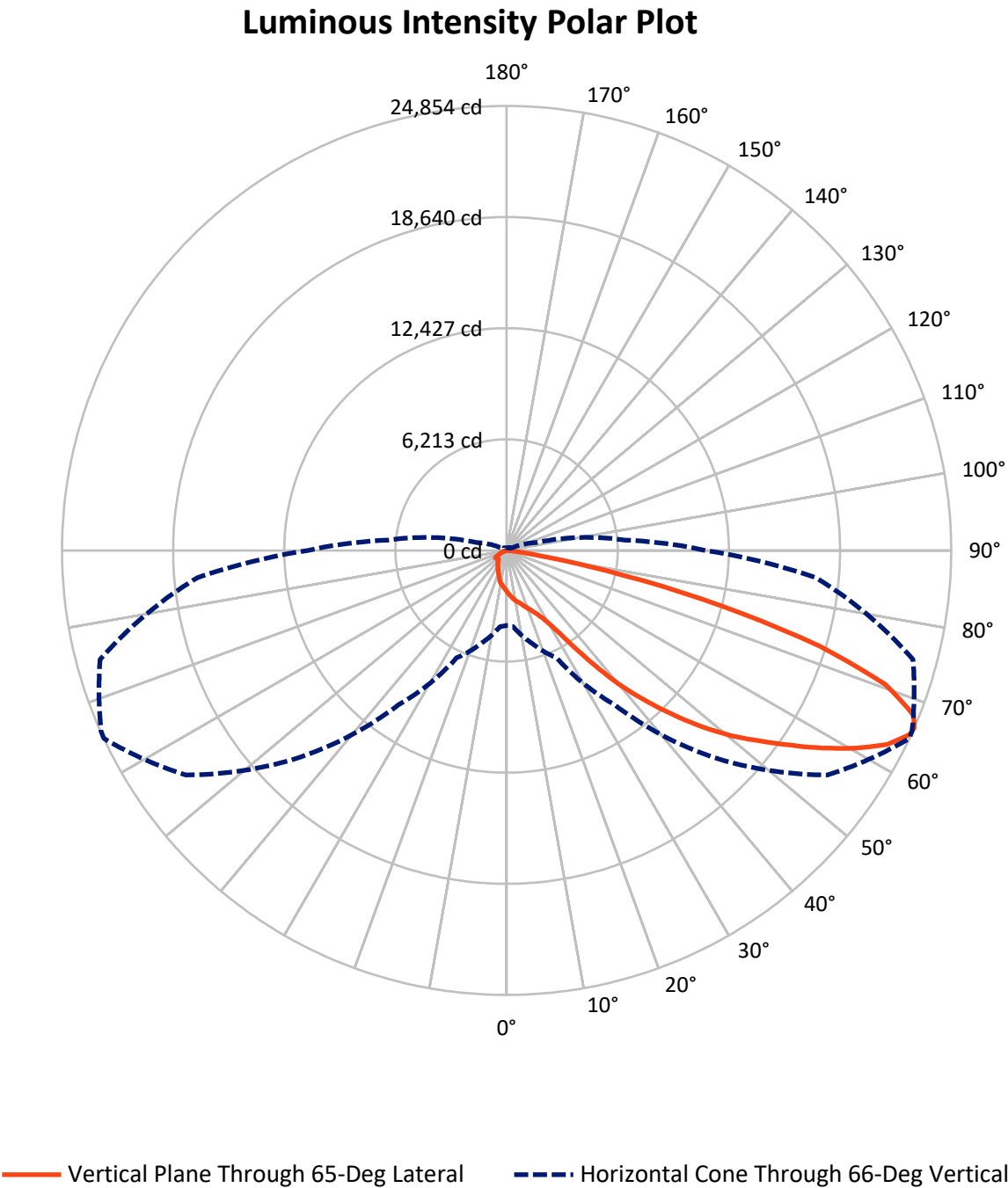


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Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3320.7	0.0	3320.7
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	24816.3	0.0	24816.3
	% Fixture	88.2	0.0	88.2
Total	Lumens	28137.0	0.0	28137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.3	0.8
10°-20°	643.3	2.3
20°-30°	1177.5	4.2
30°-40°	2392.7	8.5
40°-50°	5052.6	18.0
50°-60°	7767.6	27.6
60°-70°	7818.6	27.8
70°-80°	2921.4	10.4
80°-90°	145.9	0.5
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°	28137.0	100.0
0°-180°	28137.0	100.0

Coefficient of Utilization



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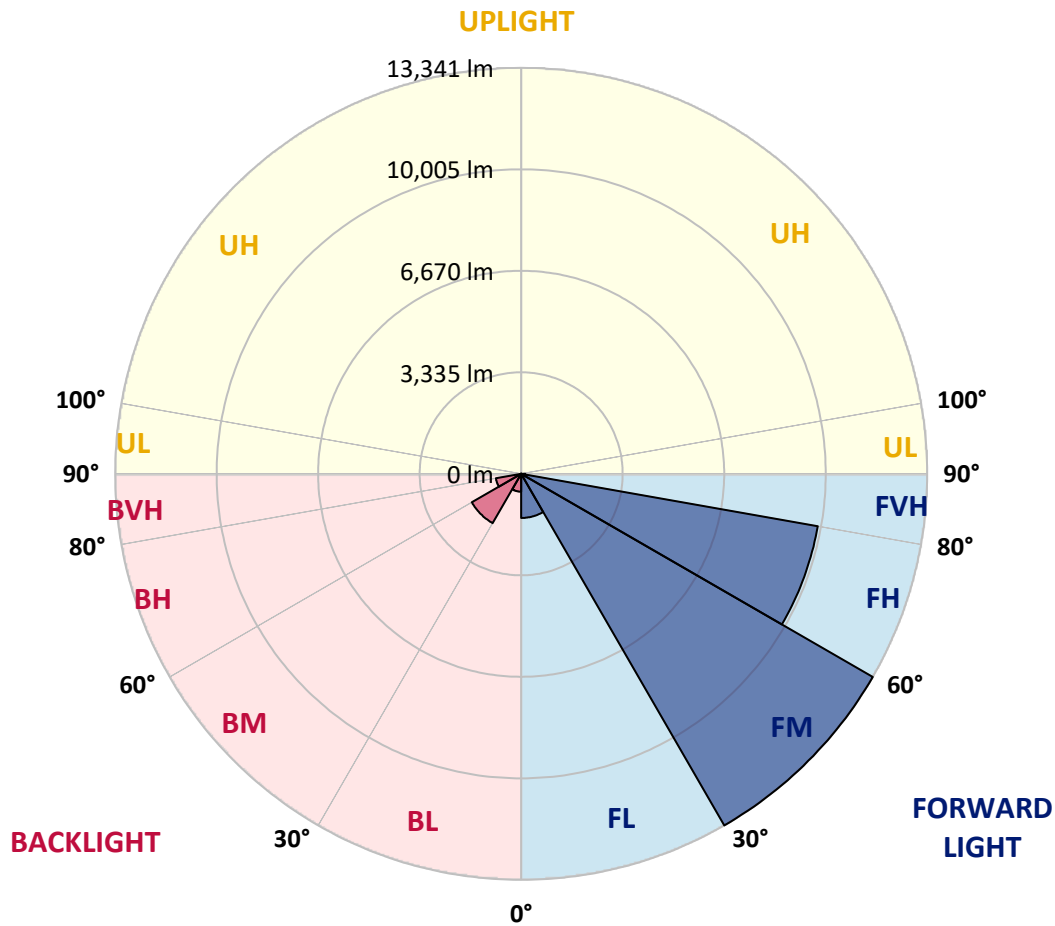
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1450.4	5.2			
FM	(30°-60°)	13340.6	47.4			
FH	(60°-80°)	9896.5	35.2			G4/12000
FVH	(80°-90°)	128.8	0.5			G2/225
BL	(0°-30°)	587.8	2.1	B2/1000		
BM	(30°-60°)	1872.3	6.7	B2/2500		
BH	(60°-80°)	843.6	3.0	B2/1000		G2/1000
BVH	(80°-90°)	17.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2292.4	2292.4	2292.4	2292.4	2292.4	2292.4	2292.4	2292.4	2292.4	2292.4	2292.4
2.5°	2614.0	2619.1	2608.9	2588.5	2568.1	2542.5	2501.7	2435.3	2425.1	2379.2	2328.1
5°	2792.7	2802.9	2787.6	2782.5	2772.3	2736.6	2680.4	2583.4	2573.2	2481.3	2363.9
7.5°	2854.0	2869.3	2859.1	2859.1	2859.1	2843.8	2818.2	2731.4	2716.1	2598.7	2420.0
10°	2899.9	2910.1	2905.0	2925.5	2940.8	2930.6	2915.2	2864.2	2848.9	2731.4	2496.6
12.5°	2971.4	2976.5	2981.6	2991.8	3017.4	3027.6	3022.5	2976.5	2966.3	2884.6	2593.6
15°	3037.8	3037.8	3042.9	3088.8	3124.6	3145.0	3150.1	3114.4	3104.1	3037.8	2716.1
17.5°	3099.0	3104.1	3119.5	3170.5	3231.8	3272.6	3298.2	3282.8	3267.5	3216.5	2859.1
20°	3190.9	3201.2	3216.5	3287.9	3349.2	3415.6	3466.6	3461.5	3456.4	3420.7	3027.6
22.5°	3349.2	3359.4	3385.0	3451.3	3512.6	3594.3	3681.1	3676.0	3660.7	3635.1	3226.7
25°	3589.2	3589.2	3604.5	3660.7	3737.2	3834.2	3915.9	3931.2	3915.9	3900.6	3476.9
27.5°	3890.4	3895.5	3895.5	3956.8	4028.2	4150.8	4252.9	4268.2	4268.2	4252.9	3813.8
30°	4309.1	4293.7	4283.5	4334.6	4411.2	4589.9	4768.5	4799.2	4783.9	4809.4	4288.6
32.5°	5028.9	5003.4	4916.6	4926.8	4972.8	5217.8	5519.1	5626.3	5621.2	5667.1	5054.5
35°	6024.5	5973.4	5845.8	5738.6	5733.5	5999.0	6458.5	6861.8	6856.7	7015.0	6218.5
37.5°	7147.7	7214.1	6974.1	6790.3	6734.2	6943.5	7535.7	8408.8	8454.7	8730.4	7745.1
40°	8648.7	8689.6	8383.2	8122.9	7857.4	7934.0	8715.1	10073.2	10154.9	10461.2	9271.6
42.5°	9955.7	9996.6	9817.9	9501.4	9164.4	9021.4	9904.7	11584.4	11650.8	12074.5	10844.1
45°	10844.1	10874.7	10936.0	10966.6	10583.7	10287.6	11359.8	13136.5	13218.2	13708.3	12380.9
47.5°	11538.5	11564.0	11686.5	11992.8	11916.3	11681.4	12840.4	14749.8	14770.2	15316.5	13876.8
50°	11860.1	11921.4	12222.6	12692.3	13029.3	13095.6	14448.6	16276.4	16332.5	16853.3	15291.0
52.5°	11502.7	11523.1	12283.9	13167.1	13846.1	14520.1	16061.9	17690.6	17854.0	18242.0	16562.3
55°	10297.8	10445.9	11599.7	13151.8	14489.4	15873.0	17787.6	19217.1	19365.2	19610.3	17680.4
57.5°	8898.9	9062.3	10466.3	12493.2	14765.1	17123.9	19385.6	20840.7	20942.8	21009.2	18706.6
60°	7688.9	7842.1	9286.9	11232.1	14489.4	18007.1	20871.3	22454.0	22540.8	22362.1	19222.2
62.5°	6203.2	6356.4	7811.4	9562.6	13407.1	18185.8	21974.1	23888.7	23924.4	23439.4	18905.7
65°	4676.6	4778.8	5993.9	7494.9	11512.9	17236.2	22224.3	24782.1	24746.4	23750.8	17956.1
66°	4191.6	4278.4	5350.6	6627.0	10527.6	16368.3	21887.3	24853.6	24817.9	23521.1	17333.2
67.5°	3614.7	3640.2	4523.5	5422.1	8807.0	14525.2	20861.1	24526.9	24557.5	22888.0	16194.7
70°	2823.3	2818.2	3328.8	3773.0	6014.3	10333.6	17399.6	22469.3	22617.4	20498.6	13810.4
72.5°	1807.4	1746.1	2042.2	2307.7	3502.4	5999.0	12687.2	18313.5	18563.6	16102.8	10287.6
75°	1077.3	1016.0	1087.5	1153.8	1679.7	2884.6	7459.1	12462.5	12702.5	10323.3	6121.5
77.5°	806.7	781.1	786.2	730.1	745.4	1082.4	3405.4	6586.1	6759.7	4227.4	2323.0
80°	617.8	551.4	515.7	541.2	490.1	428.9	1266.2	2266.8	2374.1	1000.7	485.0
82.5°	413.5	357.4	331.9	362.5	311.4	240.0	306.3	439.1	428.9	270.6	188.9
85°	214.4	183.8	183.8	183.8	158.3	117.4	132.7	178.7	178.7	143.0	112.3
87.5°	61.3	56.2	66.4	61.3	45.9	45.9	51.1	61.3	61.3	56.2	51.1
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°	2292.4	2292.4	2292.4	2292.4	2292.4	2292.4	2292.4	2292.4	2292.4	2292.4	2292.4
2.5°	2287.3	2266.8	2210.7	2169.8	2129.0	2093.3	2052.4	2042.2	2021.8	2026.9	2016.7
5°	2302.6	2246.4	2149.4	2057.5	1986.0	1924.8	1848.2	1817.6	1776.7	1761.4	1751.2
7.5°	2323.0	2241.3	2098.4	1970.7	1848.2	1725.7	1603.1	1531.7	1485.7	1465.3	1450.0
10°	2369.0	2261.7	2072.8	1873.7	1664.4	1490.8	1368.3	1317.2	1286.6	1281.5	1276.4
12.5°	2430.2	2292.4	2047.3	1751.2	1475.5	1312.1	1235.5	1220.2	1215.1	1215.1	1210.0
15°	2522.1	2343.4	2006.5	1608.2	1327.4	1215.1	1179.4	1153.8	1143.6	1143.6	1143.6
17.5°	2614.0	2404.7	1945.2	1460.2	1225.3	1153.8	1118.1	1102.8	1092.6	1097.7	1092.6
20°	2731.4	2476.2	1863.5	1332.5	1159.0	1102.8	1067.1	1051.7	1046.6	1046.6	1046.6
22.5°	2864.2	2557.9	1761.4	1235.5	1102.8	1051.7	1016.0	1000.7	990.5	995.6	995.6
25°	3042.9	2660.0	1654.2	1138.5	1046.6	1000.7	959.8	939.4	939.4	944.5	949.6
27.5°	3272.6	2782.5	1547.0	1077.3	995.6	949.6	903.7	883.3	888.4	898.6	898.6
30°	3609.6	2951.0	1439.8	1010.9	939.4	888.4	847.5	827.1	837.3	857.7	857.7
32.5°	4089.5	3226.7	1347.9	934.3	857.7	801.6	760.7	745.4	770.9	811.8	811.8
35°	4947.2	3732.1	1291.7	857.7	770.9	704.6	653.5	638.2	673.9	725.0	725.0
37.5°	6096.0	4543.9	1312.1	791.4	699.5	622.9	566.7	546.3	571.8	617.8	633.1
40°	7377.5	5524.2	1490.8	735.2	633.1	556.5	500.3	479.9	495.2	515.7	520.8
42.5°	8658.9	6565.7	1827.8	694.3	582.0	500.3	449.3	434.0	444.2	449.3	454.4
45°	9935.3	7597.0	2251.5	668.8	536.1	454.4	403.3	403.3	408.4	408.4	408.4
47.5°	11145.3	8602.8	2695.7	663.7	495.2	408.4	367.6	372.7	372.7	377.8	377.8
50°	12289.0	9501.4	3145.0	679.0	459.5	367.6	337.0	337.0	337.0	342.1	337.0
52.5°	13243.7	10287.6	3614.7	704.6	423.8	337.0	306.3	306.3	306.3	311.4	306.3
55°	14147.4	11002.4	4094.6	740.3	393.1	311.4	280.8	270.6	270.6	275.7	270.6
57.5°	14882.6	11477.2	4549.0	745.4	367.6	285.9	260.4	245.1	245.1	245.1	245.1
60°	14913.2	11201.5	4681.8	653.5	337.0	260.4	234.9	214.4	219.5	219.5	219.5
62.5°	13938.0	9751.5	3762.8	490.1	301.2	234.9	214.4	194.0	194.0	194.0	194.0
65°	12023.5	7586.8	2205.6	388.0	260.4	209.3	188.9	173.6	173.6	173.6	168.5
66°	11124.9	6652.5	1689.9	352.3	245.1	204.2	183.8	168.5	163.4	158.3	158.3
67.5°	9659.6	5258.7	1056.8	311.4	224.6	188.9	168.5	153.2	148.1	143.0	143.0
70°	7275.4	3339.0	515.7	240.0	194.0	163.4	148.1	132.7	127.6	122.5	117.4
72.5°	5105.5	1955.4	270.6	183.8	158.3	143.0	127.6	112.3	107.2	102.1	102.1
75°	2884.6	944.5	178.7	132.7	127.6	117.4	107.2	91.9	86.8	86.8	86.8
77.5°	1092.6	326.8	122.5	97.0	102.1	91.9	76.6	76.6	71.5	76.6	71.5
80°	285.9	143.0	76.6	71.5	76.6	66.4	56.2	61.3	61.3	61.3	61.3
82.5°	153.2	81.7	45.9	51.1	45.9	45.9	35.7	40.8	45.9	40.8	45.9
85°	107.2	40.8	25.5	25.5	20.4	20.4	15.3	20.4	25.5	20.4	20.4
87.5°	56.2	15.3	15.3	15.3	15.3	10.2	5.1	0.0	5.1	5.1	5.1
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)