

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 767514_350MP

Luminaire Tested: **GMX35PXX3VHS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 767514_350MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GMX35PXX3VHS
Description: 400MH TYPE III VERTICAL AREA
WITH HOUSE SIDE SHIELD
Light Source: 350 WATT PULSE-START CLEAR ED-37 VBU BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 37000 (1 lamp)
Luminaire Lumens: 21196.7 lumens
Efficiency: 57.3%
Efficacy: 53.4 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type III - Medium - Cutoff
BUG Rating: B4 - U3 - G4

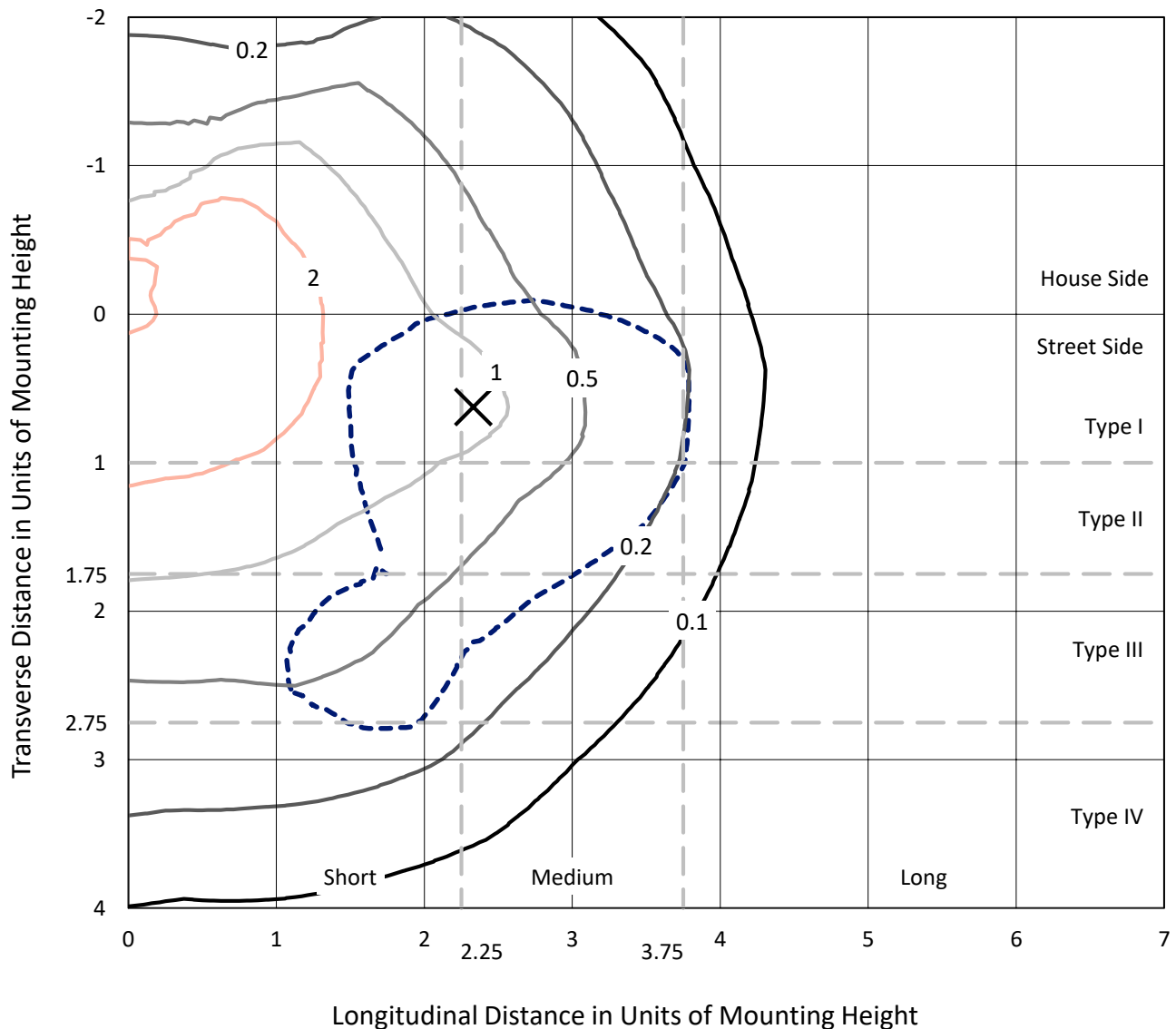
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

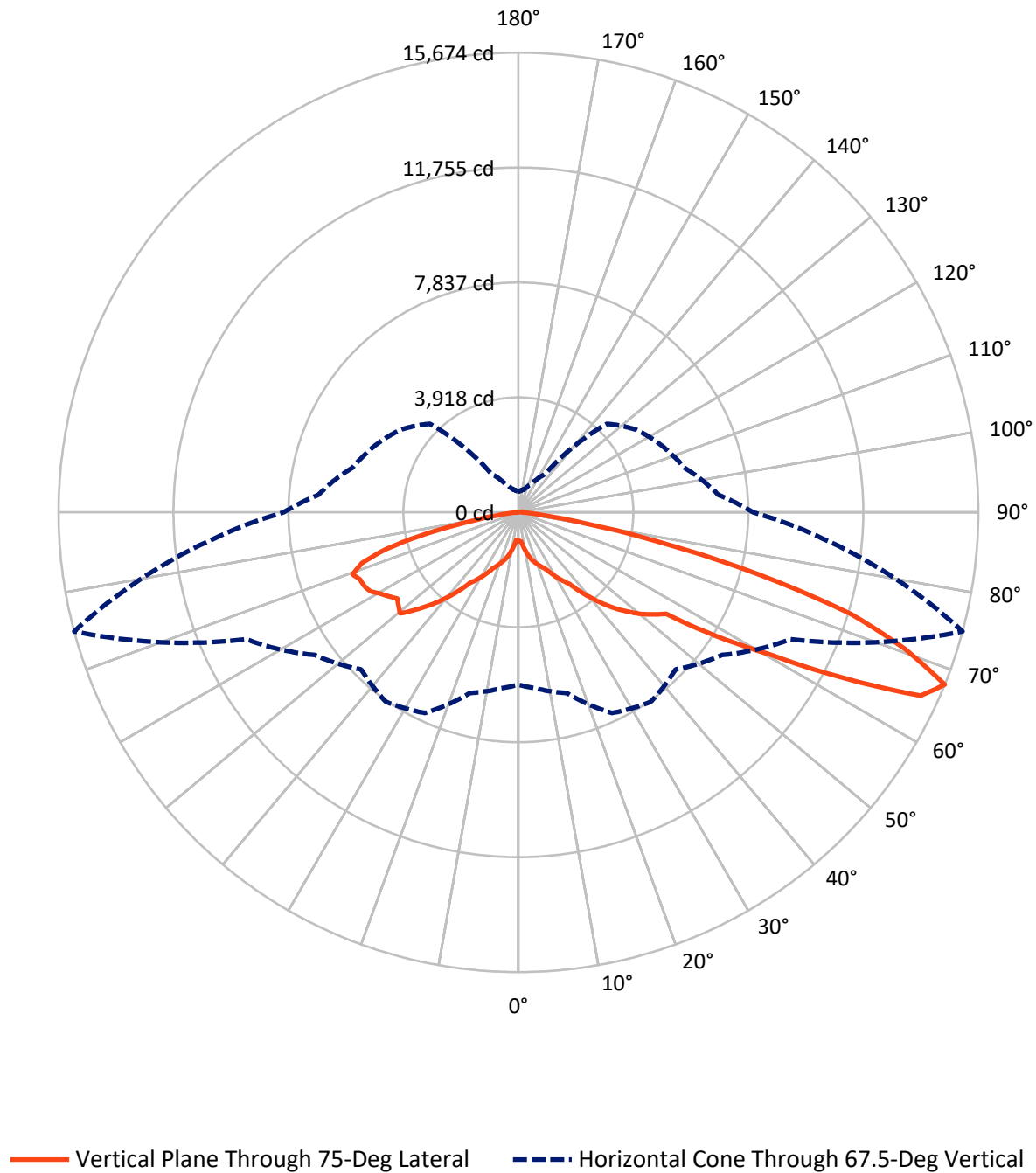
× Max cd
 --- 1/2 Max cd



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

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Luminous Intensity Polar Plot



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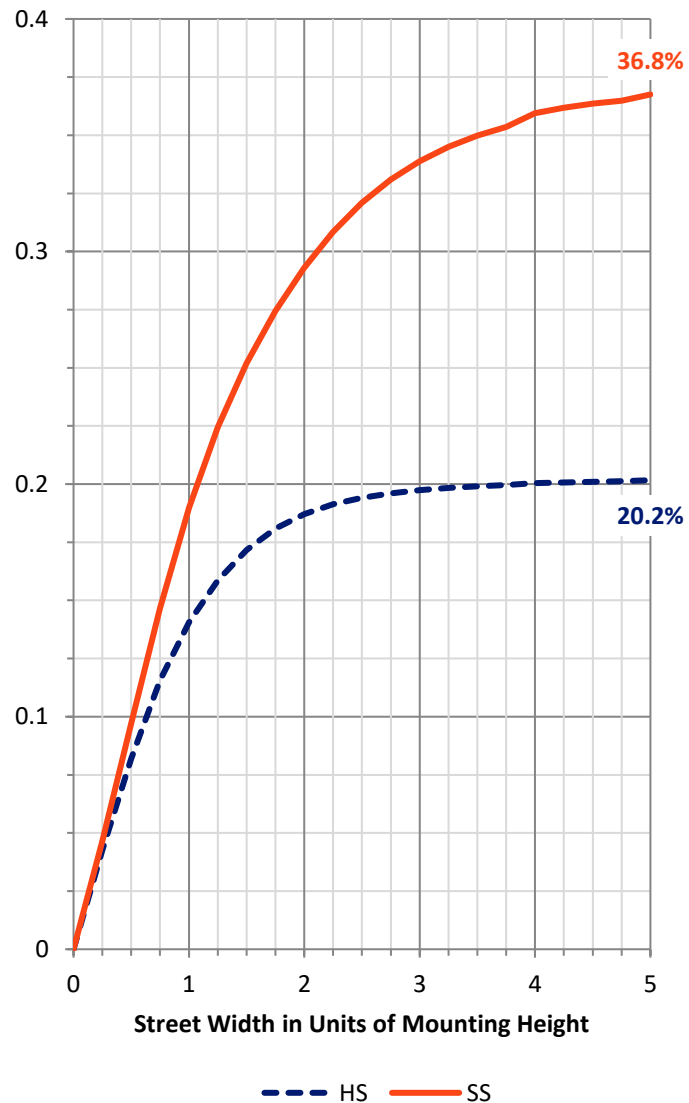
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7477.7	11.1	7488.8
	% Lamp	20.2	0.0	20.2
Street Side	Lumens	13641.6	66.3	13707.9
	% Lamp	36.9	0.2	37.0
Total	Lumens	21119.3	77.4	21196.7
	% Lamp	57.1	0.2	57.3

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	105.6	0.5	0.3
10°-20°	437.1	2.1	1.2
20°-30°	956.3	4.5	2.6
30°-40°	1749.6	8.3	4.7
40°-50°	2927.4	13.8	7.9
50°-60°	4144.3	19.6	11.2
60°-70°	5820.5	27.5	15.7
70°-80°	4496.1	21.2	12.2
80°-90°	517.7	2.4	1.4
90°-100°	62.6	0.3	0.2
100°-110°	19.0	0.1	0.1
110°-120°	2.1	0.0	0.0
120°-130°	0.2	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	21119.3	99.6	57.1
0°-180°	21196.7	100.0	57.3

Coefficient of Utilization



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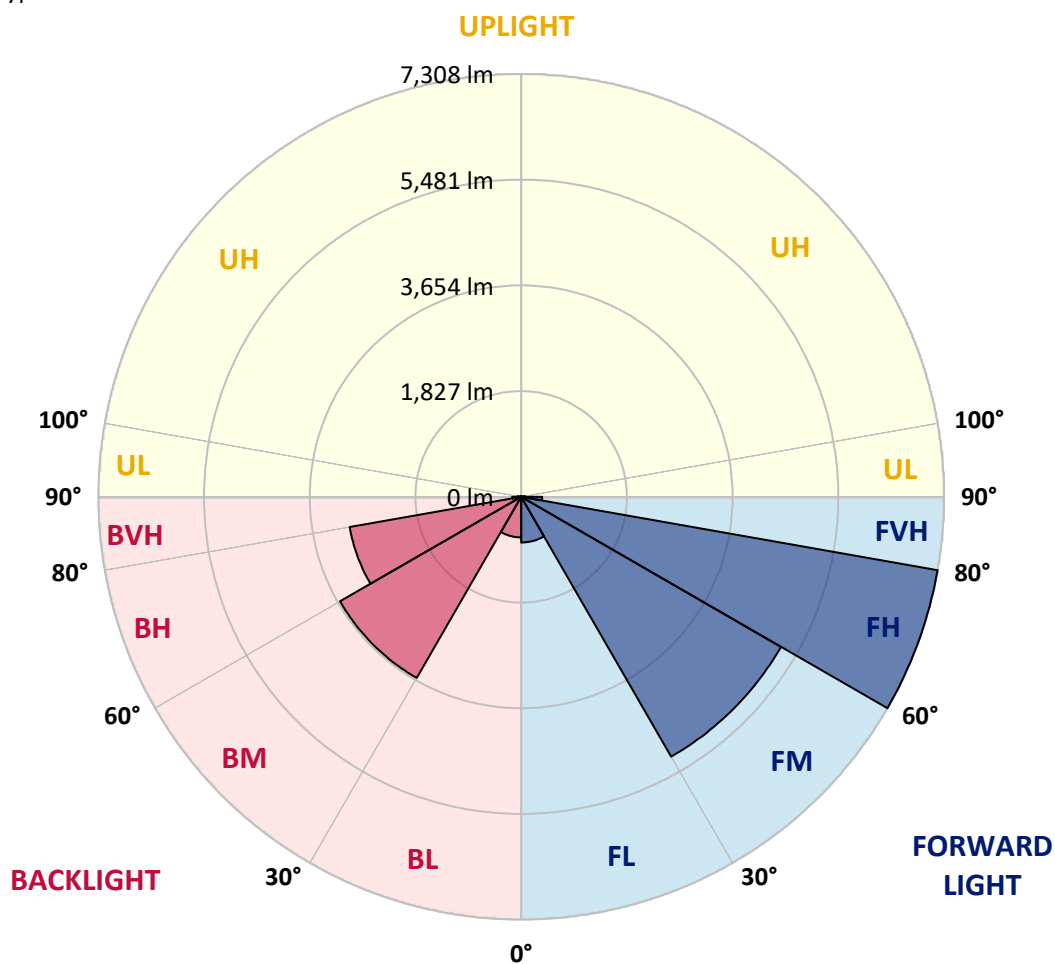
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	790.0	2.1			
FM	(30°-60°)	5185.7	14.0			
FH	(60°-80°)	7307.9	19.8			G3/7500
FVH	(80°-90°)	362.2	1.0			G3/500
BL	(0°-30°)	702.0	1.9	B2/1000		
BM	(30°-60°)	3614.1	9.8	B3/5000		
BH	(60°-80°)	3008.7	8.1	B4/5000		G4/5000
BVH	(80°-90°)	155.5	0.4			G2/225
UL	(90°-100°)	62.6	0.2		U3/500	
UH	(100°-180°)	11.1	0.0		U2/50	
Trapped Light		15803.3	42.7			

BUG Rating: B4-U3-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	976.4	976.4	976.4	976.4	976.4	976.4	976.4	976.4	976.4	976.4	976.4
5°	1126.4	1115.1	1110.0	1088.4	1078.1	1066.8	1045.2	1018.5	996.9	976.4	976.4
15°	1812.0	1801.7	1806.8	1801.7	1753.4	1743.1	1683.5	1753.4	1668.1	1603.3	1598.2
25°	2101.8	2091.5	2069.9	2038.1	2010.3	2038.1	2043.2	2106.9	2128.5	2161.4	2193.3
35°	2702.0	2691.7	2696.9	2696.9	2766.8	2863.4	2981.6	3035.0	2997.0	3126.5	3110.1
45°	4150.2	3983.7	3956.9	4118.3	4214.9	4686.7	4584.9	4895.3	4691.8	4686.7	4665.1
50°	4546.9	4483.2	4461.6	4745.2	4804.9	5313.6	5383.5	5635.3	5453.4	5683.6	5668.2
55°	4643.5	4633.2	4681.5	4820.3	5163.6	5550.0	5995.0	6058.7	6107.1	5593.2	5576.7
60°	5286.9	5260.2	5367.1	5630.2	5957.0	6375.3	7153.3	8091.7	9818.4	6928.2	6552.1
62.5°	5598.3	5550.0	5791.5	6128.6	6471.9	6815.2	7700.1	9368.2	12429.9	8150.3	7136.9
65°	5845.0	5839.8	6176.9	6756.6	7088.6	7180.1	8220.2	10193.5	15067.2	9340.4	7635.4
67.5°	5876.8	6005.3	6375.3	7550.1	7882.0	7576.8	8477.1	10236.7	15673.6	10445.3	8000.2
70°	5888.1	5995.0	6359.9	7908.7	8327.1	8011.5	8510.0	9582.0	13995.2	10960.2	8128.7
72.5°	5823.4	5683.6	6161.5	7271.5	8321.9	7758.7	8043.4	8766.9	11850.3	10000.3	7726.8
75°	4922.0	4648.6	5286.9	5983.7	6756.6	6520.2	6841.9	7506.9	8483.3	7957.1	6525.4
77.5°	3356.7	3292.0	3876.8	4220.1	4879.9	4783.3	5066.9	5073.1	5003.2	4766.8	4251.9
80°	1490.3	1533.4	1726.7	2031.9	2289.9	2455.4	2466.7	2413.2	2353.6	2043.2	1908.6
82.5°	740.0	761.6	766.7	900.3	1013.4	1066.8	1003.1	1008.2	928.1	858.2	798.6
85°	386.4	401.9	375.1	413.2	466.6	461.5	386.4	439.9	391.6	391.6	418.3
87.5°	193.2	193.2	198.4	208.6	214.8	203.5	128.5	214.8	193.2	150.1	139.8
90°	150.1	144.9	150.1	150.1	155.2	150.1	75.0	171.6	155.2	106.9	101.7
95°	85.3	85.3	85.3	91.5	101.7	106.9	38.0	155.2	161.4	91.5	80.2
105°	10.3	16.4	10.3	10.3	10.3	5.1	0.0	10.3	21.6	10.3	16.4
115°	0.0	0.0	0.0	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	976.4	976.4	976.4	976.4	976.4	976.4	976.4	976.4	976.4	976.4
5°	976.4	954.8	976.4	965.1	948.6	938.4	928.1	928.1	921.9	921.9
15°	1581.7	1603.3	1640.3	1593.1	1555.0	1415.2	1136.7	1104.9	1104.9	1104.9
25°	2182.0	2096.7	2048.4	1963.1	1919.9	1860.3	1818.1	1828.4	1850.0	1855.1
35°	3003.2	2928.1	2846.9	2708.2	2665.0	2600.3	2311.5	1576.6	1356.7	1308.4
45°	4595.2	4503.7	4295.1	4048.4	3833.6	3453.3	1758.5	1126.4	1045.2	1040.1
50°	5533.6	5303.3	4793.6	4590.1	4257.1	3330.0	1571.5	1260.1	1233.3	1233.3
55°	5523.3	5066.9	4740.1	4520.2	4300.2	3018.6	1608.5	1544.7	1517.0	1523.2
60°	6236.6	5453.4	5056.7	4729.8	4428.7	2621.9	1480.0	1383.4	1361.8	1361.8
62.5°	6536.7	5726.8	5249.9	4836.7	4483.2	2241.6	1313.5	1190.2	1168.6	1168.6
65°	6735.0	5823.4	5361.9	4879.9	4423.6	1881.9	1115.1	959.9	921.9	933.2
67.5°	6841.9	5860.4	5388.6	4906.6	4268.4	1593.1	1072.0	820.2	734.9	708.1
70°	6949.8	6032.0	5480.1	4922.0	3898.4	1228.2	846.9	643.4	573.5	514.9
72.5°	6504.8	5613.7	5083.4	4289.9	3110.1	986.7	606.4	450.2	300.1	256.9
75°	5603.4	4659.9	4333.1	3469.8	2348.5	890.1	471.7	263.1	203.5	193.2
77.5°	3839.8	3206.7	3008.3	2300.2	1560.2	702.0	359.7	198.4	123.3	106.9
80°	1860.3	1565.3	1501.6	1035.0	766.7	375.1	188.1	106.9	53.4	53.4
82.5°	793.4	708.1	750.3	611.5	471.7	263.1	139.8	69.9	38.0	31.9
85°	396.7	332.0	418.3	391.6	375.1	150.1	75.0	31.9	10.3	10.3
87.5°	123.3	58.6	85.3	64.8	48.3	21.6	5.1	0.0	0.0	0.0
90°	80.2	26.7	53.4	38.0	21.6	10.3	5.1	0.0	0.0	0.0
95°	58.6	16.4	21.6	10.3	0.0	0.0	0.0	0.0	0.0	0.0
105°	10.3	0.0	5.1	5.1	0.0	5.1	5.1	0.0	0.0	0.0
115°	5.1	0.0	0.0	0.0	5.1	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)